Connecting the Units

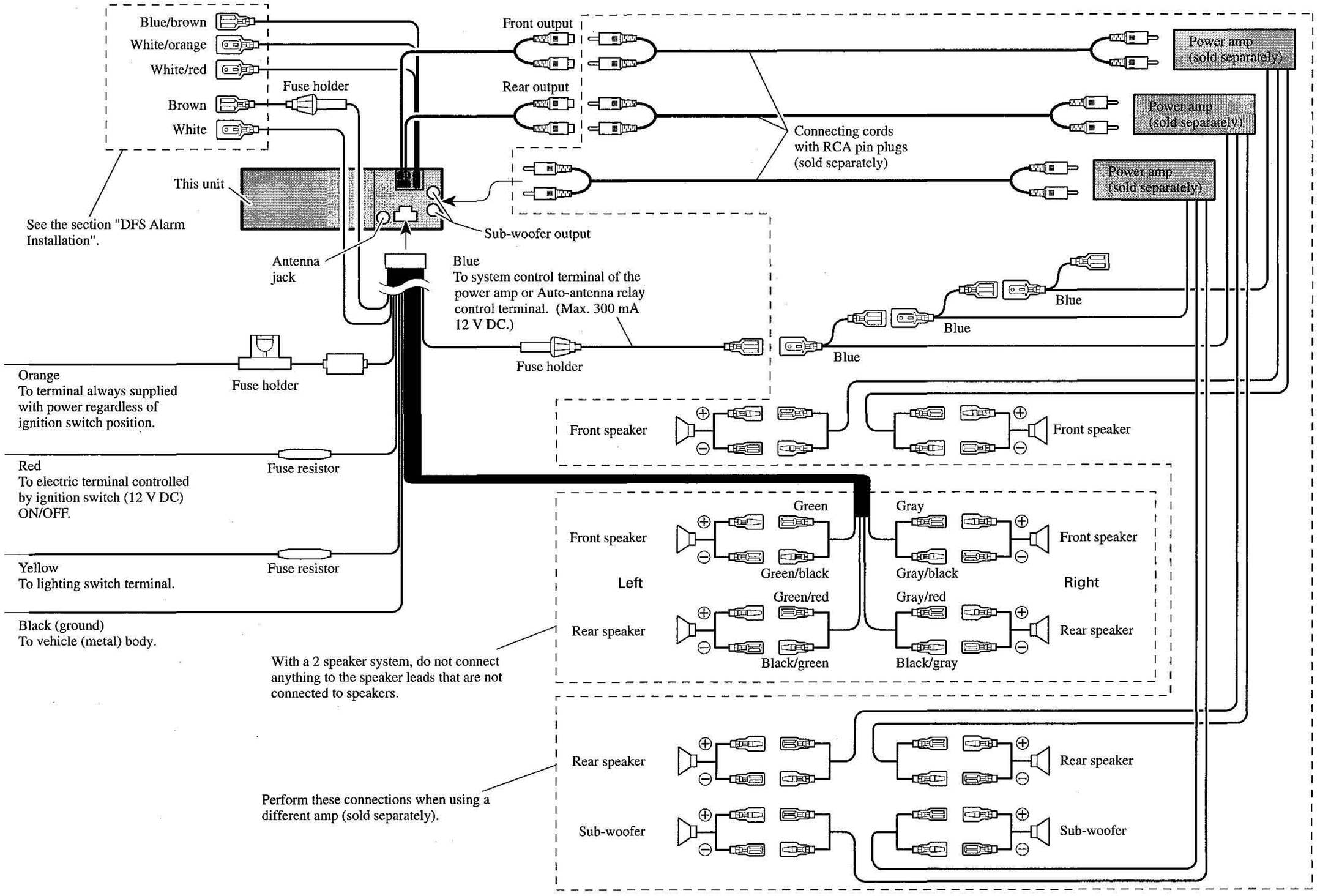


Fig. 30

DFS Alarm Installation

⚠ CAUTION

- Because of the complexity of today's technically advanced vehicle wiring systems, we recommend that your DFS Alarm be installed ONLY by a professional Pioneer installer.
- Install the unit so that it can be quickly disconnected in case the engine doesn't start even if the unit operates correctly. (Refer "STARTER CUT-OFF", "Avoiding Trouble" section.)

Affix the included deterrent stickers to the inside of the front door windows.

Description

■ White (DOOR SWITCH) ..... (Fig. 31 & 32)

This lead is used to trigger DFS Alarm when any door is opened and may be connected to either positive or negative (+/–) type door pin switches.

■ Brown (ALARM OUTPUT) ..... (Fig. 33)

This lead is a selectable constant or pulsed positive (+) output capable of driving up to 2 relays (500 mA) max. Use this lead to trigger relays for siren, horn, honk or flashing lights.

■ White/Red (ALARM SENSOR) ..... (Fig. 34)

This lead is a negative (–) input and is provided for hookup of negative triggering sensors such as shock, or glass sensors (sold separately).

■ White/Orange (DOOR LOCK) ..... (Fig. 35)

This lead is used to disarm DFS Alarm from power door lock systems or alarm systems with remote unlock. This lead may be connected to door lock systems with either positive or negative (+/–) unlock triggers.

■ Blue/Brown (STARTER CUT-OFF) ..... (Fig. 36)

This lead provides a positive (+) constant output when DFS Alarm is triggered and remains constant for 30 minutes or until DFS Alarm is disarmed. This output should be used with an optional relay to disable starter.

Door Switches

The DFS Alarm's door trigger input is designed to work with either positive or negative door pin switches. After hookup, simply set door system type from DFS Alarm Setting Menu.
Domelight Delay-DFS Alarm will wait for last door to close and courtesy light to turn off before Exit Delay Timer Starts.

DOOR SWITCH (White)

■ Grounding Type Switch:

GM, Chrysler, Japanese, and most European vehicles

Note:

- Set DFS Alarm to recognize ground trigger from DFS Alarm Setting Menu. Set Door System to "DR-L :CLS".

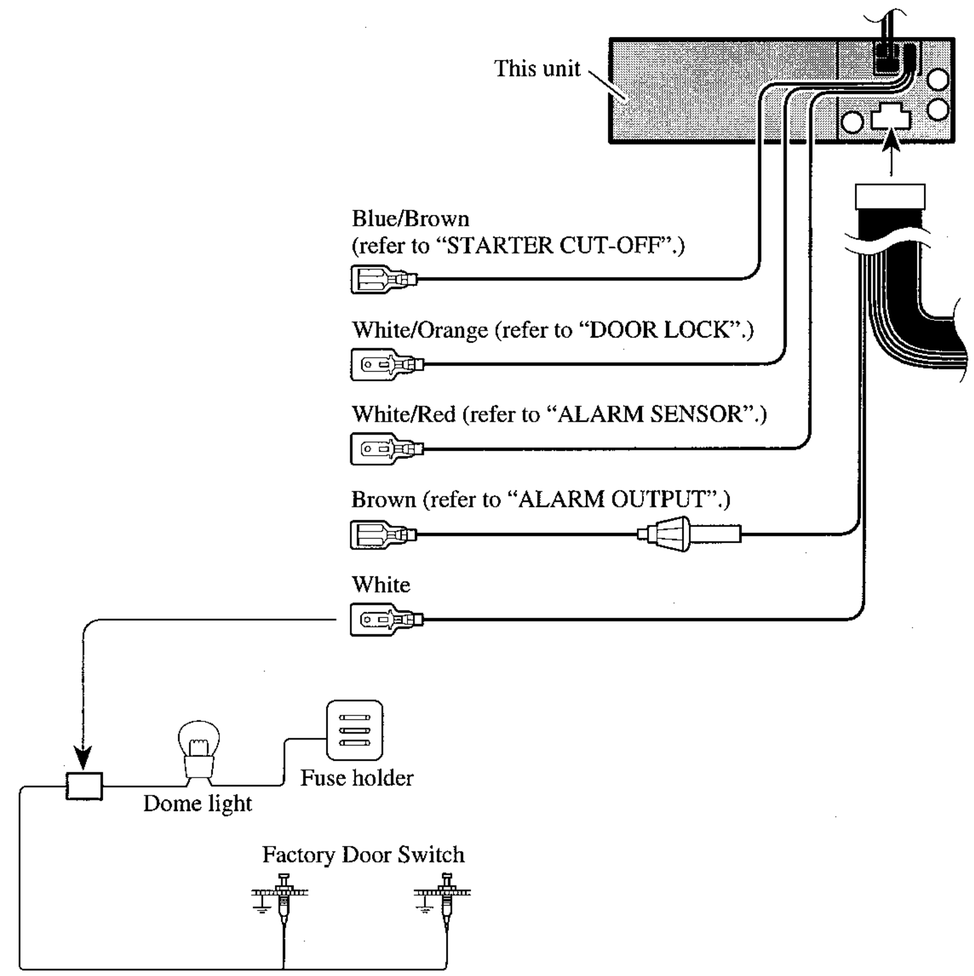


Fig. 31

DFS Alarm Installation

■ Positive (Non-grounding) Type Switch:

Ford, Jaguar, Mercedes

Note:

- Set DFS Alarm to recognize positive trigger from DFS Alarm Setting Menu. Set Door System to "DR-H :CLS".

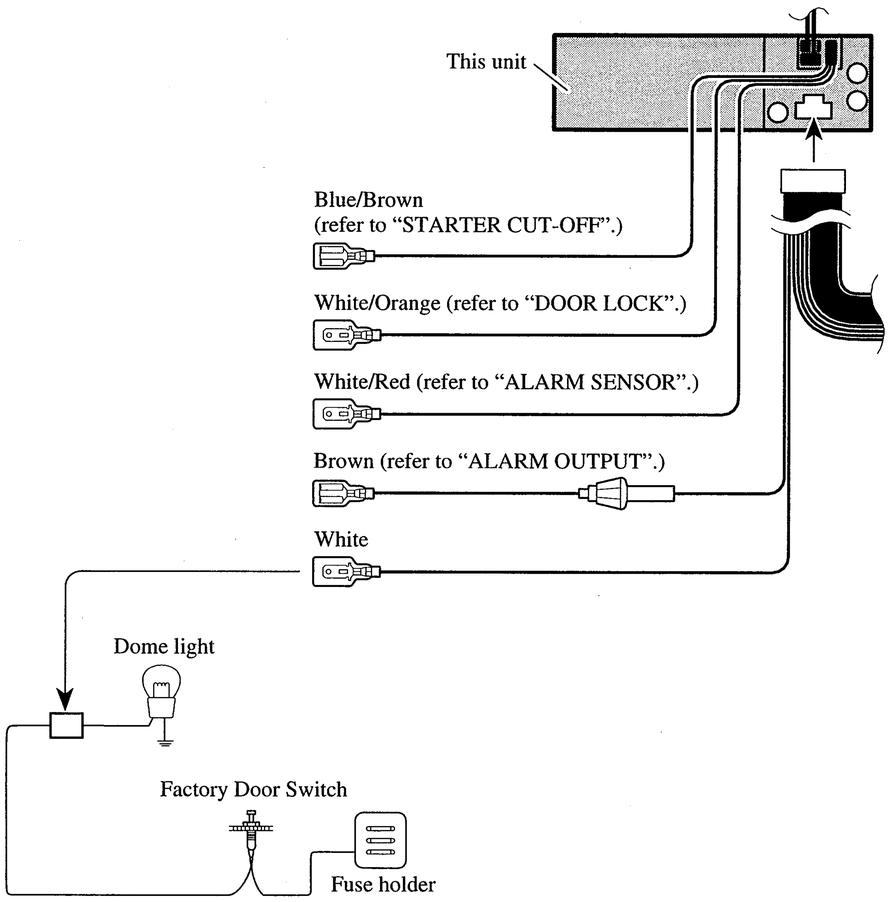


Fig. 32

■ Installing New Pin Switches

Separately sold pin switches are available that can be used to protect your vehicle's trunk, hood etc. When you purchase these, make sure that you first confirm that they can be used with your vehicle's door system type.
Follow the makers instructions as to installation and wiring.

ALARM OUTPUT (Brown)

The brown lead provides a +12 V, constant or pulsed output while alarm is sounding. This lead has a maximum current capability of 500 mA and can be used to trigger a relay to sound a siren, horn or flash lights.

■ Recommended Wiring:

30 amp relay (sold separately) required to operate siren, horn or lights.

- Connect Brown wire to one side of relay coil.
- Connect ground to other side of coil.

For sirens, horns or lights requiring +12 V trigger

- Connect normally open to fused, constant +12 V source.

For horns or lights requiring ground trigger

- Connect normally open pin to ground.

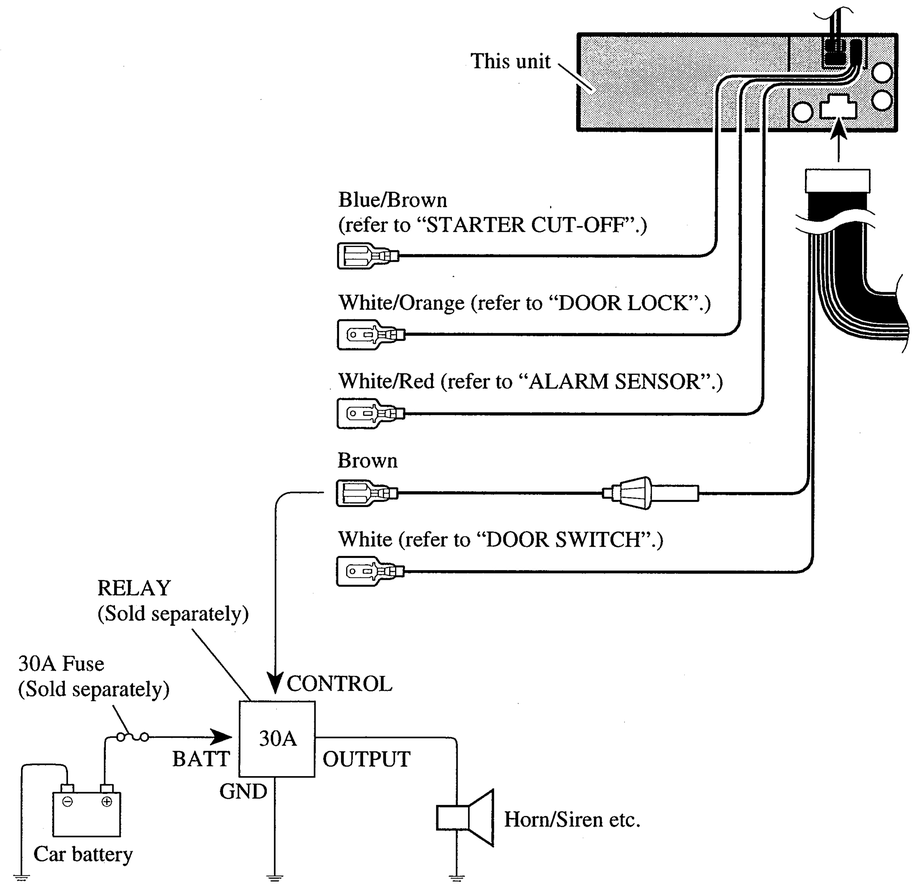


Fig. 33

DFS Alarm Installation

ALARM SENSOR (White/Red)

The white/red lead is a negative triggered (Grounding) input that can be connected to various separately sold shock or glass sensors. There is no limit as to how many sensors are connected, so you can ensure total protection of your vehicle. Follow the makers instructions as to installation and wiring.

Note:

- If the shock sensor detects vehicle vibrations, use the negative (–) output type. If you use the positive (+) output type, the alarm will sound continually, and the shock sensor will not operate correctly.

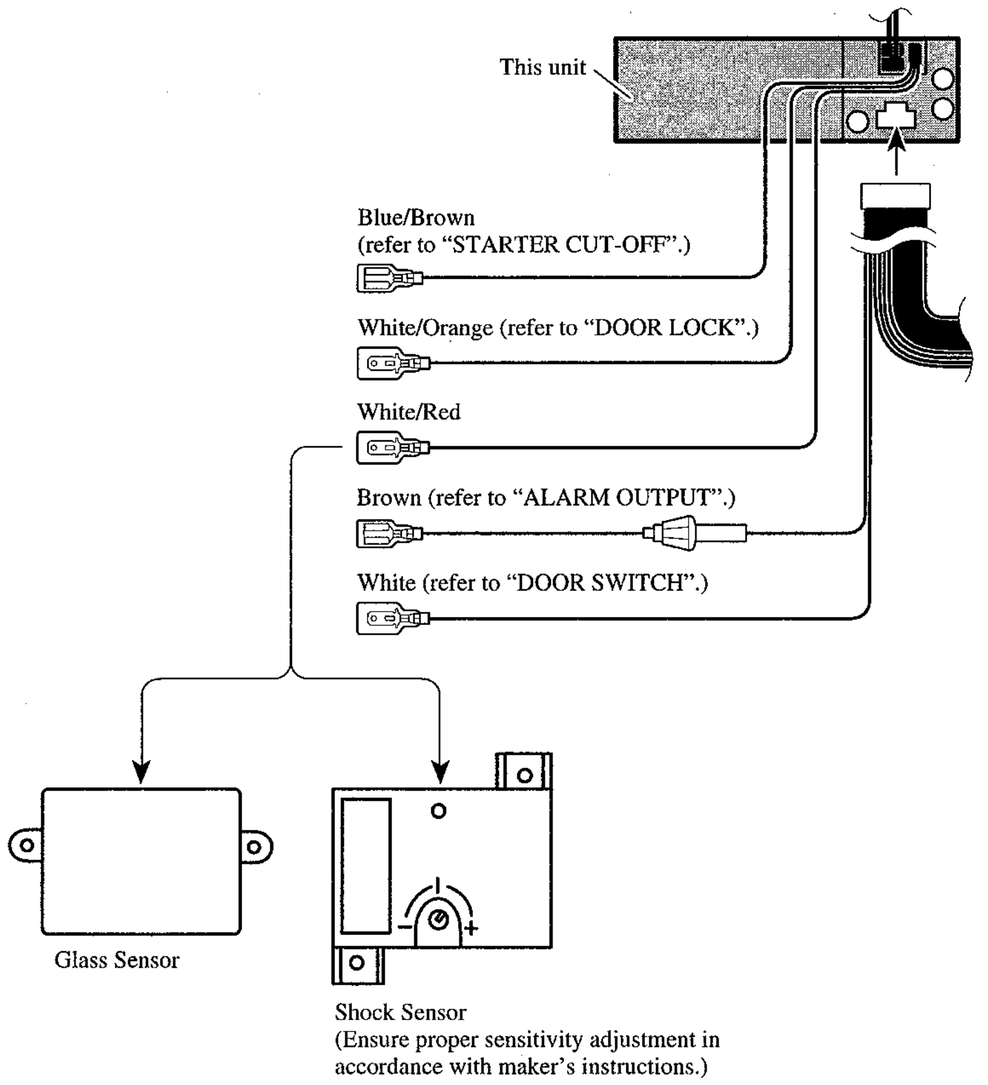


Fig. 34

DOOR LOCK (White/Orange)

The white/orange lead should be connected to the "unlock" lead for your vehicles door locking system, so that when you open the driver's door by your vehicle's remote control, your Pioneer DFS Alarm is deactivated.

First, locate the two wires from the lock/unlock switch that operate the factory door lock solenoids for the driver's side. Using a meter, determine which lead is used to unlock the door; connect this to the white/orange lead of your Pioneer Car Stereo. In the DFS Alarm Setting Menu, select the door-lock system type according to your vehicle (grounding or non-grounding).

If you have difficulty wiring this connection, please consult your nearest Installation specialist.

Note:

- If your vehicle is equipped with a central door lock but the glass or shock sensor is not connected, if the window is broken and the central door lock is released, this unit's DFS Alarm will not operate.
- Pioneer recommends that both a shock sensor and glass sensor be installed when you are using the "Remote Disarming" feature.

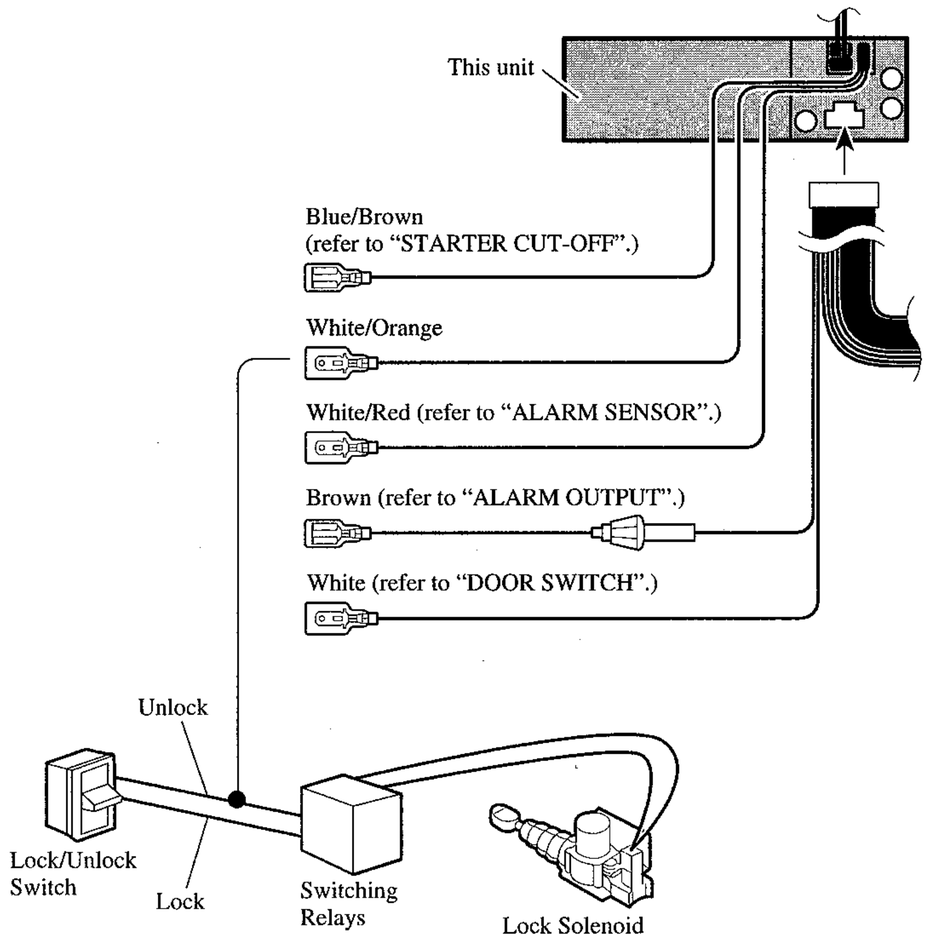


Fig. 35

DFS Alarm Installation

STARTER CUT-OFF (Blue/Brown)

The blue/brown lead will provide a continuous +12 V output while alarm is sounding and for 30 minutes after initial trigger, up to 5 consecutive triggers. This lead has a maximum current capability of 500 mA and can be used to trigger a relay to disable the starter.

Note:
- In order for the "DFS Alarm" to operate when a window is broken, connect this unit's White/Red (ALARM SENSOR) lead to glass sensor securely.
- In order for the "DFS Alarm" to operate when a door is forced open, connect this unit's White (DOOR SWITCH) lead securely.

■ Recommended Wiring:

30 amp relay (sold separately) required to disable starter.
- Connect blue/brown lead to one side of relay coil.
- Connect other side of coil to ground.
- Locate starter wire under dash, near steering column.
- Cut starter wire and try to start vehicle to verify wire is correct.
- Connect key side of cut wire to normally closed pin.
- Connect starter side of cut wire to common pin.

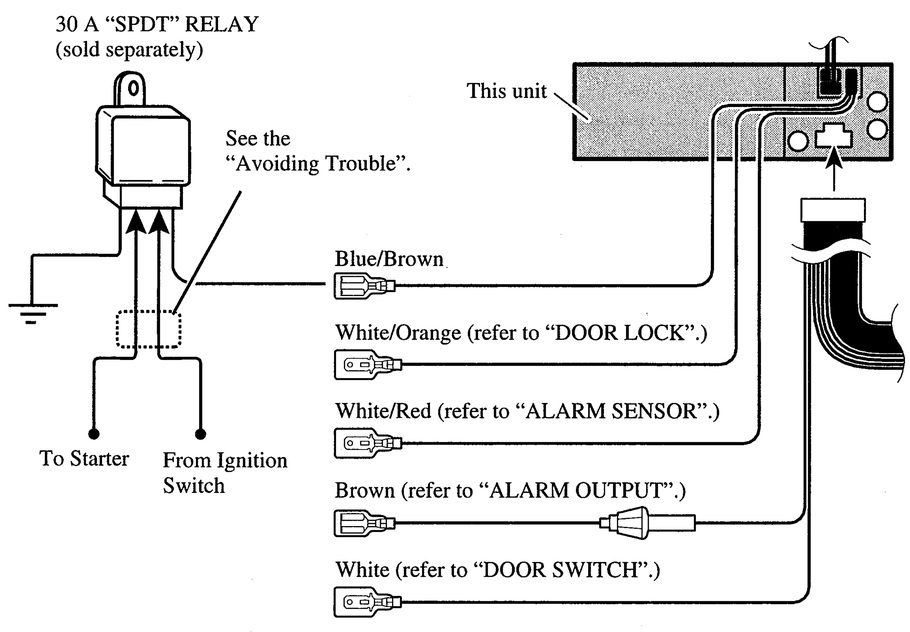


Fig. 36

Avoiding Trouble

You may not be able to start the engine even if you operate the unit correctly. Take the following measures to deal with this problem. When installing a switch to deal with such a problem, install it where it is least conspicuous.

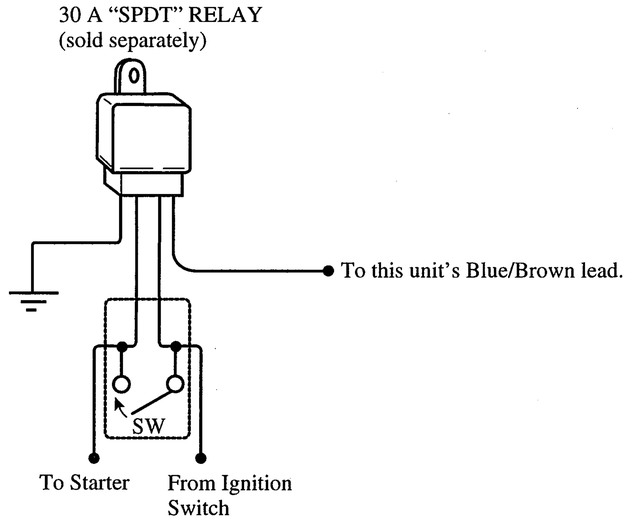
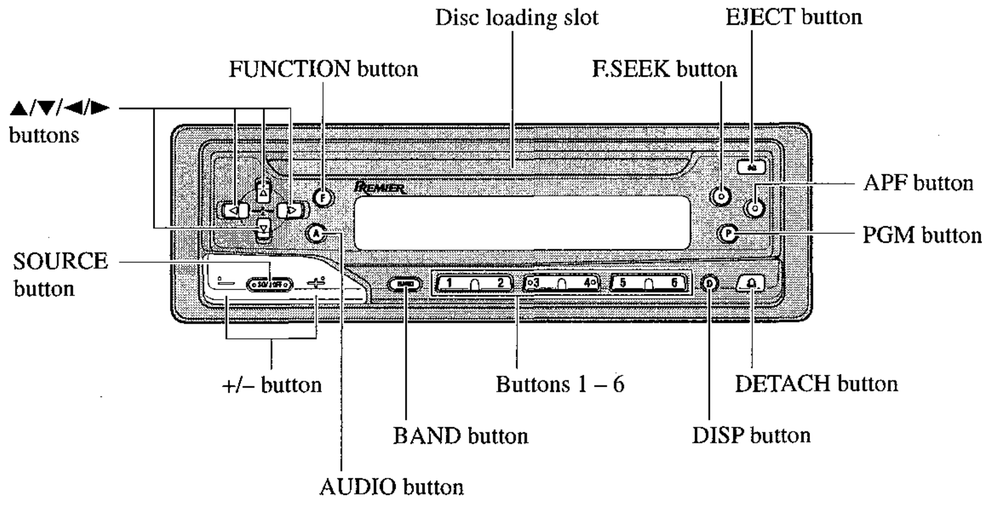


Fig. 37

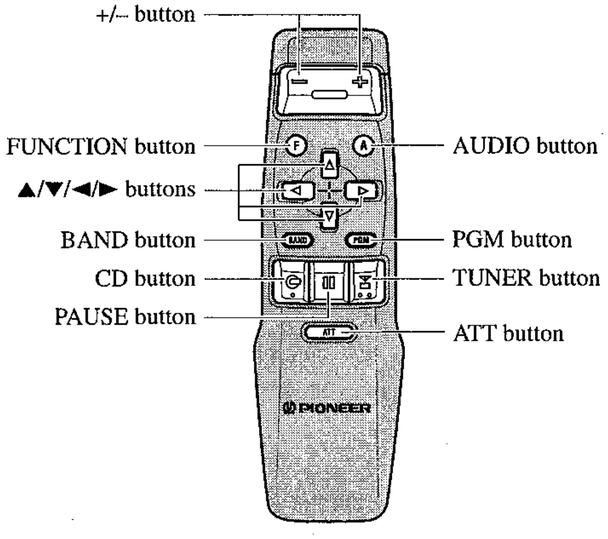
Note:
- Use cords and switches having current handling (amperage) capacity greater than that of the relay to be attached.

Key Finder

■ Head Unit



■ Remote Controller



Remote Controller and Care

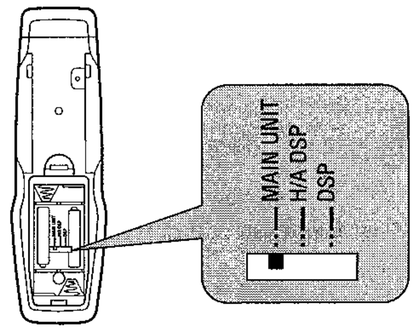
Using the Remote Controller

This product is equipped with a remote controller for convenient operation.

- Point the controller in the direction of the front panel to operate.
- When the controller is not in use, attach it firmly to the provided mounting base.

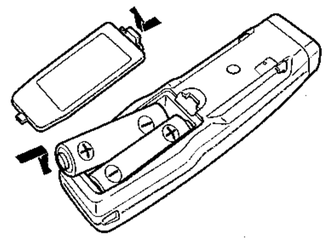
Precaution:

- Do not store the remote controller in high temperatures or direct sunlight.
- The controller may not function properly in direct sunlight.
- Do not let the remote controller fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- Open the cover on the rear of the remote control, and you'll find a switch. Do not change this switch's position from the MAIN UNIT position. (Initially, the switch is set to the MAIN UNIT position.) If you change the switch setting, correct operation of this unit will not be possible.



Batteries

- **Remove the cover on the back of the remote controller and insert the batteries with the (+) and (–) poles pointing in the proper direction.**



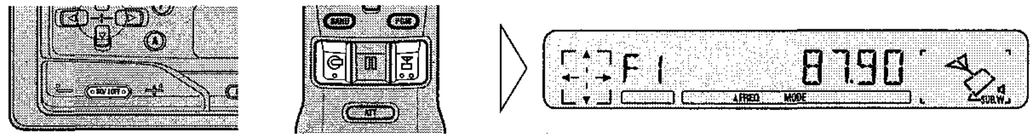
Precaution:

- Use only AAA or IEC R03 1.5 V batteries.
- Remove the batteries if the remote controller is not used for a month or longer.
- Do not attempt to recharge the supplied batteries.
- Do not mix new and used batteries.
- If the event of battery leakage, wipe the remote controller completely clean and install new batteries.

Basic Operation

Switching Power ON/OFF

- **Select the desired source (such as the tuner).**



■ Head Unit

Each press of the SOURCE button selects the desired source in the following order:
Built-in CD player → Tuner

To switch the sources OFF, hold down the SOURCE button for 1 second or more.

■ Remote Controller

Each press of the CD button selects the desired source in the following order:
Built-in CD player → Sources OFF

Each press of the TUNER button selects the desired source in the following order:
Tuner → Sources OFF

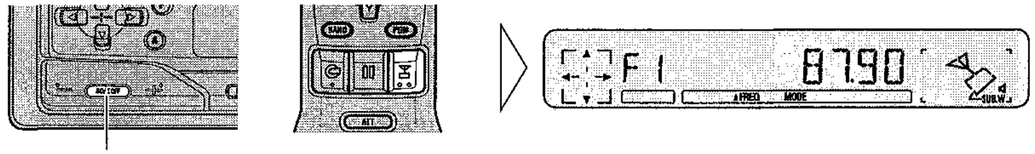
Note:

- The sound source will not change if no disc is set in this unit.

Tuner Operation

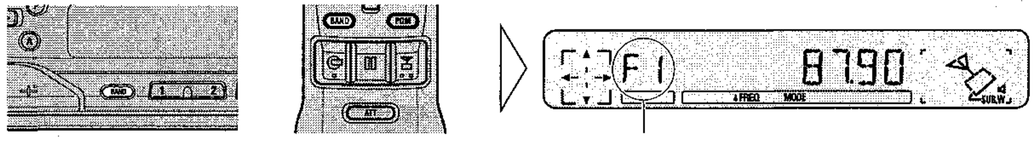
Basic Operation of Tuner

1. Select Tuner.



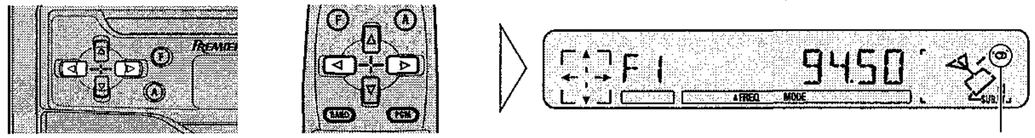
Each press changes the source ...

2. Select the desired band.



F1 → F2 → F3 → AM

3. Tune the receiver to a higher or lower frequency.



"◯◯" stereo

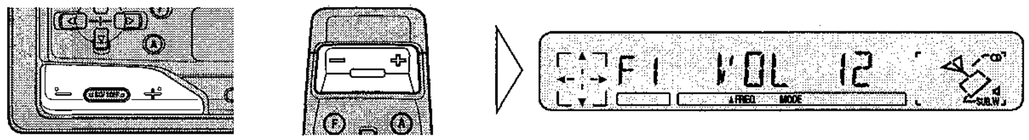
This product's tuner lets you select the tuning by changing the length of the time you press the button.

Manual Tuning (step by step)	0.3 seconds or less
Seek Tuning (automatically)	0.3 – 2 seconds
Manual Tuning (continuously)	2 seconds or more

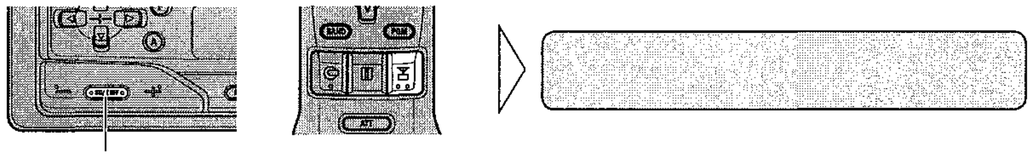
Note:

- "◯◯" stereo indicator lights when a stereo station is selected.

4. **Raise or lower the volume.**



5. **Turn the source OFF.**

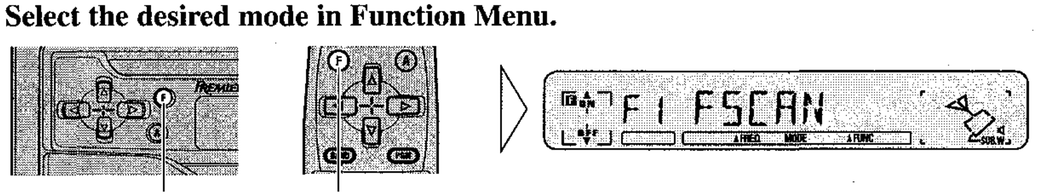


Hold for 1 second

Entering the Function Menu

In this menu you can select tuner functions.

- **Select the desired mode in Function Menu.**



Each press changes the mode ...

Each press changes the mode ...

Each press of the FUNCTION button selects the mode in the following order:
FSCAN → FBSM → APF → MULTI-ST → LOC → SEEK SEL

To cancel the Function Menu, press the BAND button.

Note:

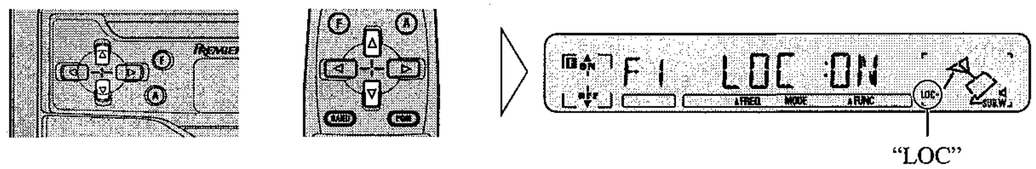
- **In modes other than LOC, you can use ID LOGIC functions. Refer to "Using ID LOGIC" for details and instructions on how to use these functions.**
- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

Tuner Operation

Local Seek Tuning

This mode selects only stations with especially strong signals.

1. **Select the Local mode (LOC) in the Function Menu.**
2. **Switch the Local mode ON or OFF.**



"LOC"

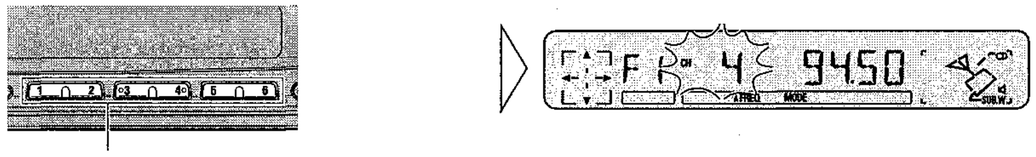
To cancel the Function Menu, press the BAND button.

Preset Tuning

Up to 18 FM stations (6 in F1 (FM1), F2 (FM2) and F3 (FM3)) and 6 AM stations can be stored in memory.
Store the stations in memory under buttons 1 – 6 beforehand with the Preset Memory function.

Preset Memory

1. **Select the station whose frequency you want to store in memory.**
2. **Press one of buttons 1 – 6 for 2 seconds or longer to store the desired stations. (eg. Press button 4.)**



Hold for 2 seconds

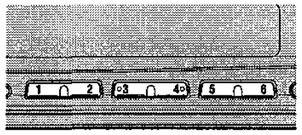
The station is stored in memory under the selected button.

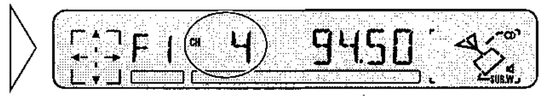
Recalling Preset Stations

There are two ways to recall preset stations.

■ Direct Recall

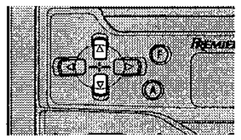
- **Press one of buttons 1 – 6 to recall a station preset under that button. (eg. Press button 4.)**

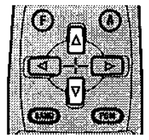


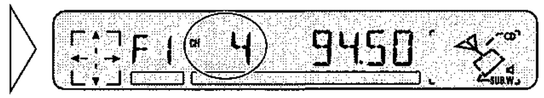


■ Sequential Recall

- **Recall a station preset under button 1 – 6.**







Using ID LOGIC

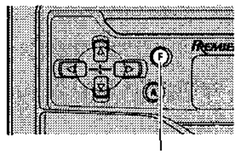
This unit features a tuner with ID LOGIC functions.
ID LOGIC is a database of information about AM and FM stations throughout the United States and in some parts of Canada and Mexico. To enable you to take advantage of this information, this unit features a wide range of functions.
You get display of Broadcast Station Call Sign and Format (Program type), tuning to stations broadcasting a desired format.

Note:
- Sections 1 and 2 provide explanations concerning menus for ID LOGIC operations. Sections 3 to 7 explain basic operations, and Sections 8 to 11 deal with special functions.
- Before using ID LOGIC functions, you must first perform Location Set-up. (Refer to Section 3.)

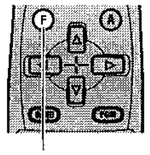
1. Entering the Function Menu

In this menu you can select ID LOGIC functions.

- **Select the desired mode in Function Menu.**



Each press changes the mode ...



Each press changes the mode ...

Each press of the FUNCTION button selects the mode in the following order:
FSCAN → FBSM → APF → MULTI-ST → LOC → SEEK SEL

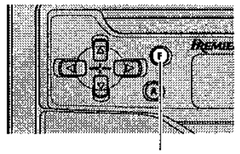
To cancel the Function Menu, press the BAND button.

Note:
- LOC is a normal tuner function. For an explanation on this function and how to use it, refer to "Local Seek Tuning" on page 11.
- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

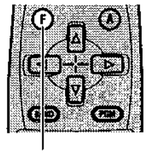
2. Entering the Detailed Setting Menu

In this menu you can perform Location Set-Up, Update and Programmable button settings.

1. Enter the Detailed Setting Menu.

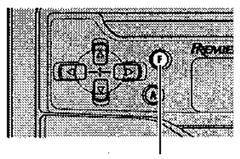


Hold for 2 seconds

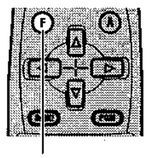


Hold for 2 seconds

2. Select the desired mode.



Each press changes the mode ...



Each press changes the mode ...

Each press of the FUNCTION button selects the mode in the following order:
LOCATION → APF → UPDATE → PGM-FUNC

To cancel the Detailed Setting Menu, press the BAND button.

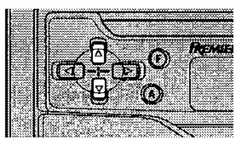
Note:
- You can cancel the Detailed Setting Menu by pressing the FUNCTION button again for 2 seconds or more.

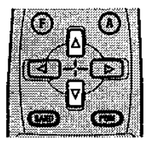
3. Location Set-Up

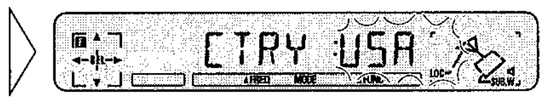
Set the name of the country, state and city (nearest city to the vehicle position) that the vehicle is positioned in.

1. During FM reception, select the Location Set-Up mode (LOCATION) from the Detailed Setting Menu.

2. Select the country.



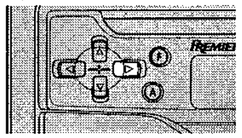


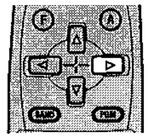


Coutinued overleaf.

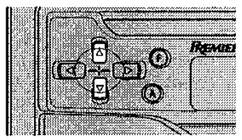
Using ID LOGIC

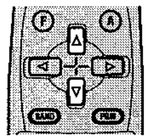
3. Advance to next selection.





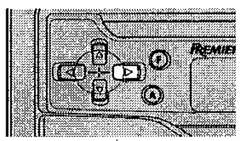
4. Select the state.

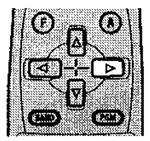


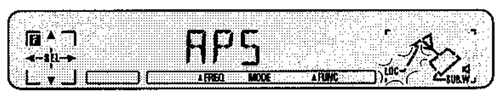


States are stored alphabetically.

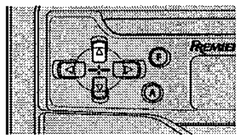
5. Advance to next selection.

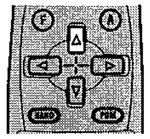






6. Using the APS (Auto Position Setting) function, automatically set the city the vehicle is located in.

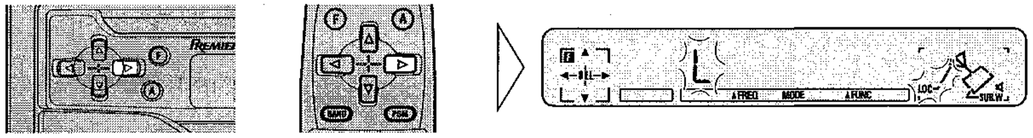




When you have completed APS, the city name flashes in the display.

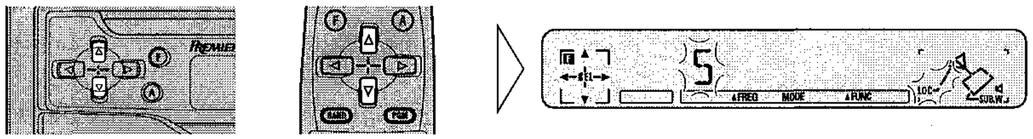
When you have correctly set the city name, perform procedure 10 to cancel the Location Set-Up mode.
If you have not correctly set the city name, perform procedure 7 to set the name manually.

7. Manually set the city.

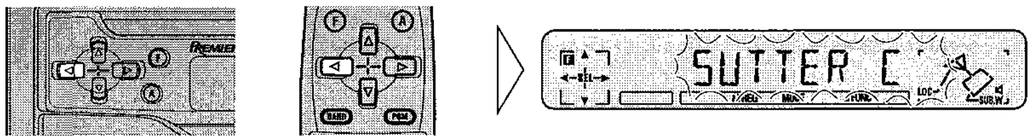


The initial letters of city names are displayed for city name selection.

8. Select the initial of the city name.

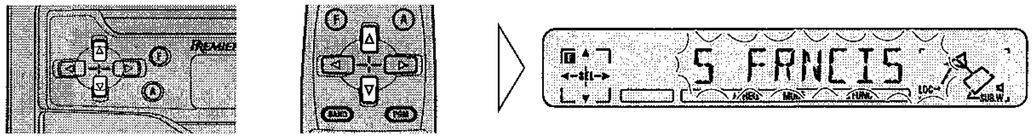


9. Fix your choice of the initial.



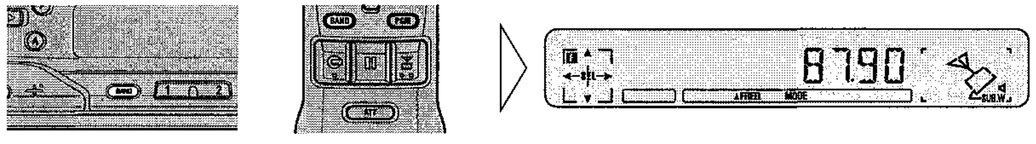
One city having your selected initial letter will be displayed.

10. Select the city.



Cities are stored alphabetically.

11. When the correct city has been selected, cancel the Location Set-Up mode.



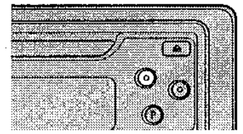
Using ID LOGIC

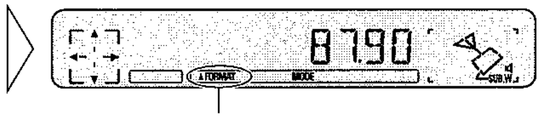
4. Format Tuning

This product allows you to look for a station by format (program type). Formats are divided into 8 types, such as ROCK, COUNTRY, NEWS and TALK.

Group Formats	Corresponding Formats
ROCK	TOP 40
	CLS ROCK
	ROCK
RASY LIS	SOFT
	ADLT HIT
	OLDIES
CLS/JAZZ	CLASSICL
	JAZZ
	NOSTLGIA
	PUBLIC
COUNTRY	COUNTRY
R AND B	R AND B
	SOFT R/B
INFO	NEWS
RELIGION	REL MUSC
	REL TALK
MISC	LANGUAGE
	MISC

1. Select Format Seek mode.

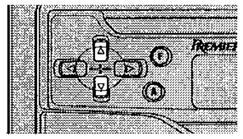


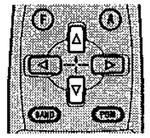


"FORMAT"

To cancel Format Seek mode, repeat the preceding operation.

2. Select a group format.

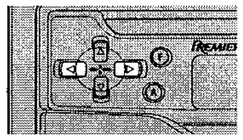


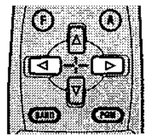


A station broadcasting a program with a different group format from the format of the currently received broadcast station is selected.

Press the ▲ button to select stations with the next group format, and the ▼ button to select stations with the preceding group format.

3. Select a station.





A station broadcasting a program with the same group format as the currently received broadcast station is selected.

Press the ► button to select a station with a higher frequency and the ◄ button to select a station with a lower frequency.

Note:

- If you perform operation 3 during reception of a broadcast station with no format data, "NO FRMT" is displayed.
  The tuner then returns to the prior frequency.
- "NO STATN" is displayed if no station with the selected group format can be received.
  The tuner then returns to the prior frequency.
- "NO DATA" will be displayed if there is no station data for the specified group format stored in the ID LOGIC database.
- If the set vehicle location is different from the current location, the selected group format and the format of the program may differ.
- If "MS" is displayed, refer to the "8. Multi-Station" section.
- You can also select and cancel the Format Seek mode when in the Function Menu SEEK SEL mode.

Using ID LOGIC

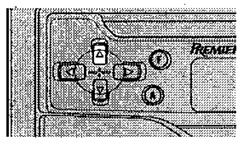
5. F.BSM (Format Best Stations Memory)

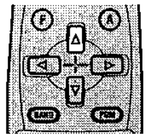
This function automatically places receivable stations into presets 1 – 6, in order from strongest to weakest, for a selected group format.

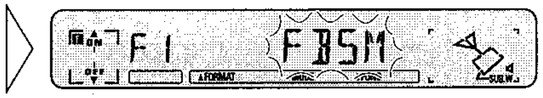
Firstly, choose your desired group format as described in "4. Format Tuning".

1. Select the F.BSM mode (FBSM) in the Function Menu.

2. Start F.BSM.



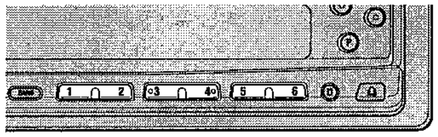


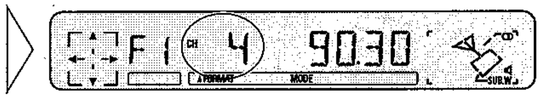


To cancel F.BSM midway, press the ▼ button.

When F.BSM is completed, "FBSM" in the display stops flashing.

3. Select a preset station by pressing a button 1 – 6. (eg. Press button 4.)





Note:

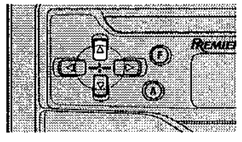
- In areas where there are not 6 or more stations covered by format tuning, the previously stored contents may be retained.
- If "MS" is displayed, refer to the "8. Multi-Station" section.

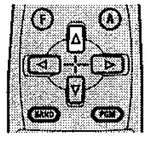
6. F.SCAN (Format Scan)

This function allows you to scan receivable stations with the same format type as that of the present station that you are listening to.

1. Select the F.SCAN mode (FSCAN) in the Function Menu.

2. Start F.SCAN.

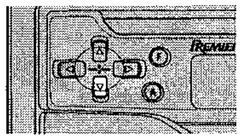
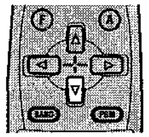




Stations with the same format are tuned one after another at 8 second intervals.

3. Cancel the scan function and enable you to remain tuned to the present station.

If the Function Menu has been canceled automatically, select the F.SCAN mode in the Function Menu again.

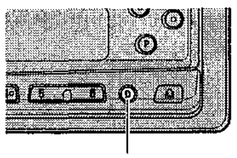
To cancel the Function Menu, press the BAND button.

Note:
- If "MS" is displayed, refer to the "8. Multi-Station" section.

7. Display Modes

This function can be used to scroll through the various display modes for Band/Frequency, Call Sign/Frequency and Call Sign/Format.

- **By pressing DISP button it is possible to scroll through the various displays.**



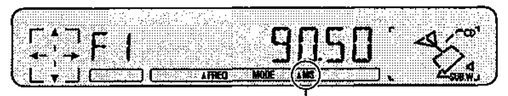
Each press changes the display ...

Note:
- You cannot switch to these displays if Call Sign and Format data for the station you are receiving are not stored in the tuner.
- If the set vehicle position is different from the current location, a different Format and Call Sign from those of the tuned-in station may be displayed.
- The program of some stations may differ from that indicated by their Format.

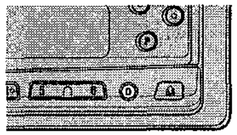
8. Multi-Station

When "MS" is displayed, this indicates there are a number of stations having the same broadcasting frequency stored in the ID Logic database.

For example, if you have performed Format Tuning; you may be listening to a station with a different format type than which you chose.



- **Display Call Sign and Format indications, and confirm that Call Sign and Format agree with those of the program being broadcast.**

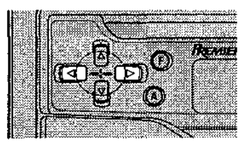
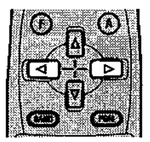


Note:
- If the format of the program differs from the format you want to listen to, perform Format Tuning, F.BSM or F.SCAN again.
- If the Call Sign and Format do not agree with those of the program, display indications change.

■ Changing Multi-Station Call Sign and Format

1. Select the Multi-Station mode (MULTI-ST) in the Function Menu.

2. Select Call Sign and Format.

Pressing the button switches the Call Sign and Format of the station broadcasting on the frequency currently being received. Select the appropriate Call Sign and Format for the broadcast.

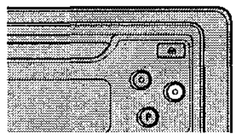
To cancel the Function Menu, press the BAND button.

9. APF (Auto Position Follow)

■ When the source is the tuner

When you drive away from the city vicinity to which the vehicles location has been set to, the quality of the received station broadcast will deteriorate. Before searching for a new station, you must first update your vehicle's position.

- **Start APF.**

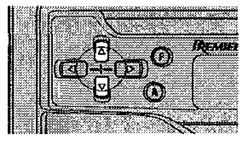


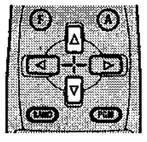
Note:
- You can also start APF in the Function Menu.

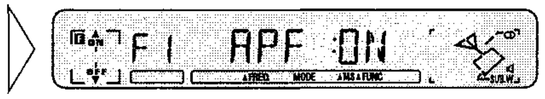
■ When the source is the built-in CD player

Your vehicle's position can be automatically updated at regular intervals when listening to the built-in CD player; if APF has been turned on.

1. **Select the APF ON/OFF mode (APF :OFF) in the Detailed Setting Menu.**
2. **Switch APF ON or OFF.**







To cancel the Detailed Setting Menu, press the BAND button.

Using ID LOGIC

10. Update

This function is provided for amendment, deletion and addition of data (call sign and format) relating to stations registered in the ID Logic database.

Note:
- Updated data is not cleared even if you disconnect the vehicle's battery or if you press the RESET button. Clear updated data in the CLEAR mode. (Refer to page 94).

■ Amending and deleting data

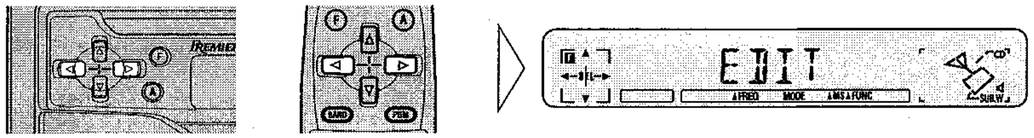
If the call sign or format for a station changes, then the data registered in the ID Logic database should be changed.

Also if a station has closed down, you should delete that data from the database.

Database amendments and deletions can be performed for a total of 161 stations.

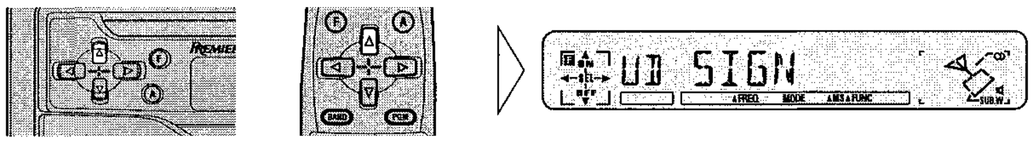
1. **Set the frequency to that of the station, whose data you want to amend or delete.**
2. **To amend or delete data for a station that cannot be received from the vehicles present location, refer to "3. Location Set-Up" to manually set the vehicles position to a city, where that station can be received.**
3. **When "MS" is lit, coordinate the broadcast content and the display.**
   (Refer to "8. Multi-Station" section.)
4. **Select the Update mode (UPDATE) in the Detailed Setting Menu.**

5. Select the EDIT mode.



Mode switches between EDIT/ADD/CLEAR each time you press the button.

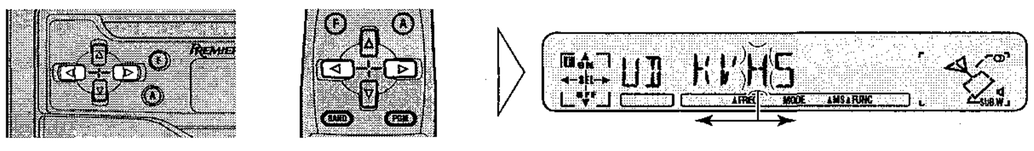
6. Enter EDIT mode.



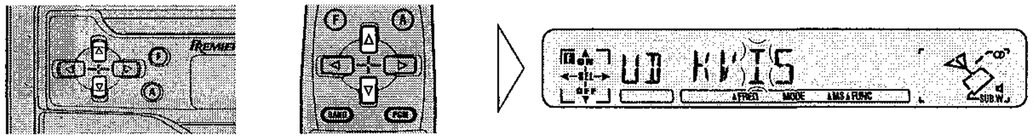
The Call Sign is displayed.

Note:
- If you try to make data amendments or deletions for more than 161 stations, "EDT FULL" will be displayed.

7. Select the character to be amended.

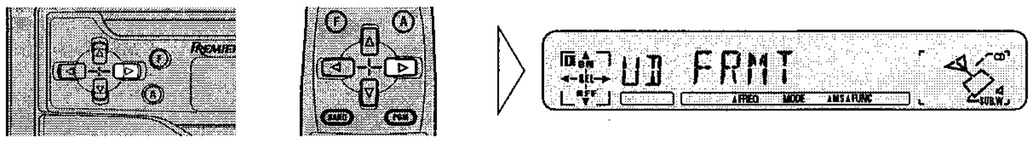


8. Select a different character.



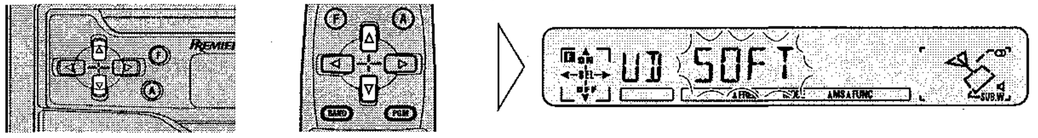
Note:
- To delete data, use a blank for all four characters.

9. If you press the ► button when the last of the four call sign characters is flashing, the format type is displayed.



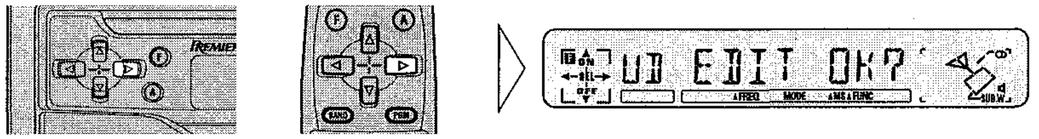
Continued overleaf.

10. Select format type.



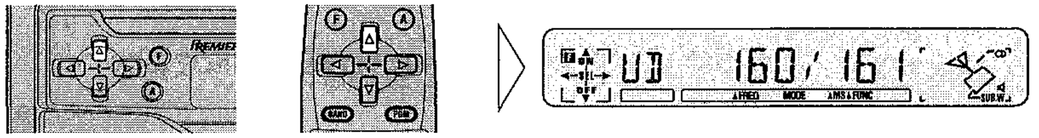
Each time you press the button, the format type changes as follows:
TOP 40/CLS ROCK/ROCK/SOFT/ADLT HIT/OLDIES/CLASSICL/
JAZZ/NOSTLGIA/PUBLIC/COUNTRY/R AND B/SOFT R/B/
NEWS/REL MUSC/REL TALK/LANGUAGE/MISC

11. Press the ► button after completing format type selection.



A registration confirmation message is displayed.

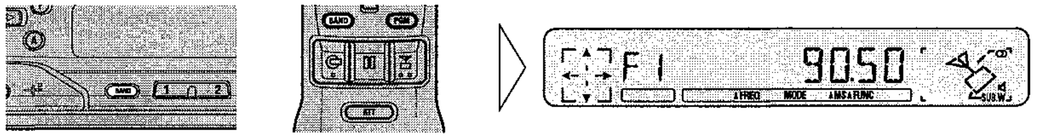
12. Registering amended/deleted data in the ID Logic database.



The remaining space for amendments/deletions is displayed for a short while.

Note:
- To cancel the EDIT mode without registering amended/deleted data, press the ▼ button.

13. Cancel the update mode.



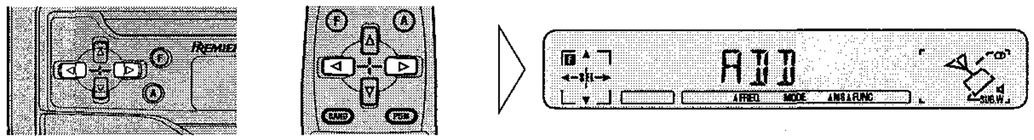
■ Registering New Data

A newly opened station, or a station whose data is not registered in the ID Logic database, may be manually registered.

New data registration can be performed up to 63 times.

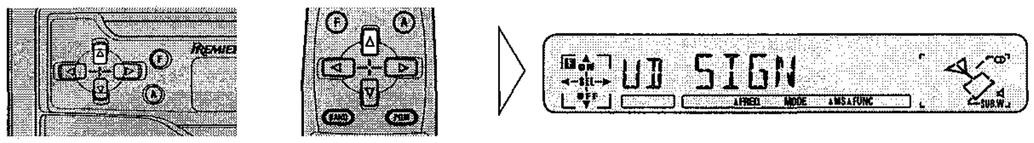
1. Follow steps 1 – 4 of "Amending and deleting data".

2. Select the ADD mode.



Mode switches between EDIT/ADD/CLEAR each time you press the button.

3. Enter ADD mode.

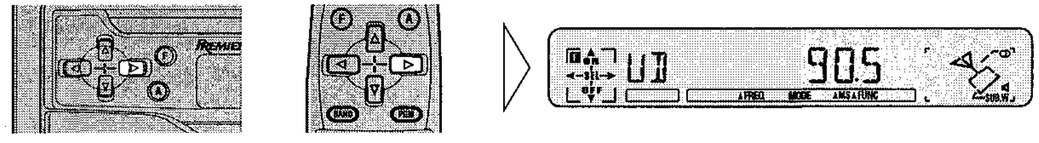


Call sign "AAAA" is displayed.

Note:
- If you try to add data for more than 63 stations "ADD FULL" will be displayed.

4. Follow steps 7 – 10 of "Amending and deleting data", to enter your desired data.

5. Press the ► button after completing format type selection.

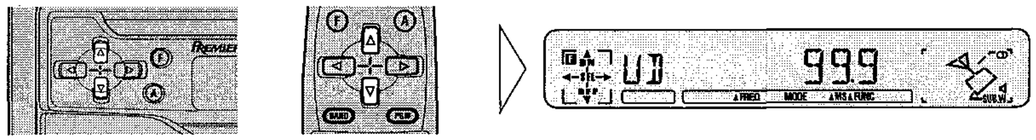


The frequency is displayed.

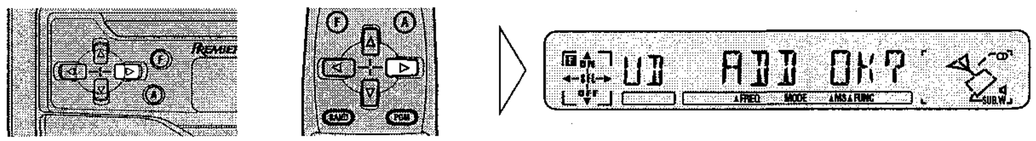
Continued overleaf.

Using ID LOGIC

6. Select frequency.

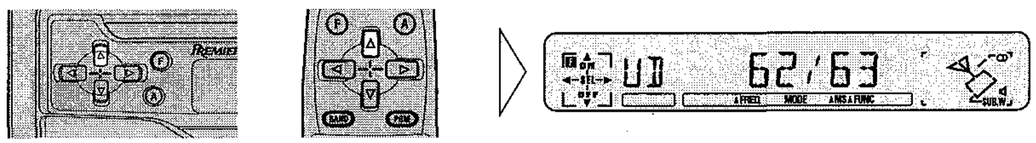


7. Press the ► button after completing frequency selection.



A registration confirmation message is displayed.

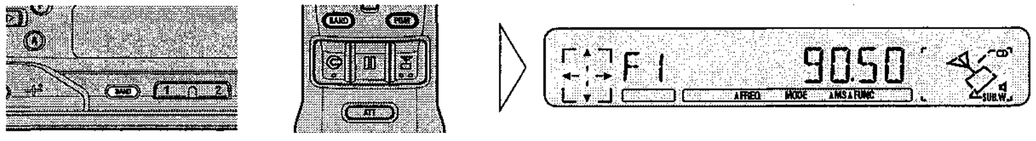
8. Register additional new data in the ID Logic database.



The remaining space for additions is displayed for a short while.

Note:
- To cancel the ADD mode without registering additional data, press the ▼ button.

9. Cancel the Update mode.



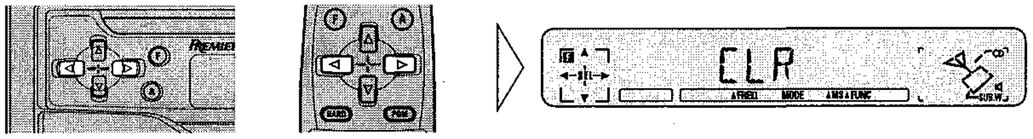
Note:
- Data items registered in the ADD mode can be amended/deleted individually. (Refer to "Amending and deleting data".)

■ Clearing amended, deleted, and additional data

You can clear amended, deleted and additional data from the ID Logic database.

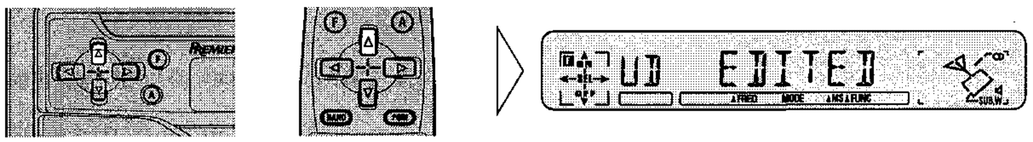
1. Select the Update mode (UPDATE) in the Detailed Setting Menu.

2. Select the CLEAR mode.

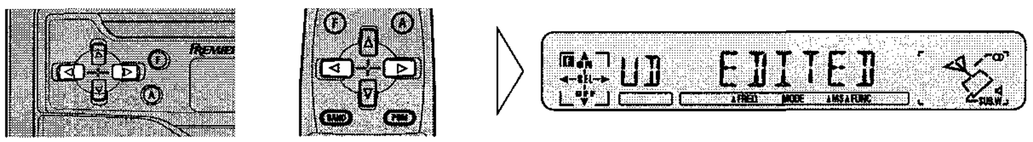


Mode switches between EDIT/ADD/CLEAR each time you press the button.

3. Enter CLEAR mode.



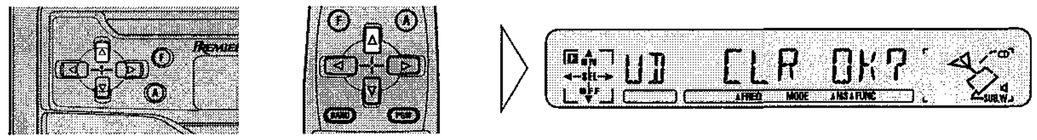
4. Select the data you want to clear.



Display switches between EDITED/ADDED/ALL each time you press the button.
To clear amended/deleted data, select "EDITED". To clear additional data, select "ADDED". To clear both amended/deleted and additional data, select "ALL".
(In this example, "EDITED" is selected.)

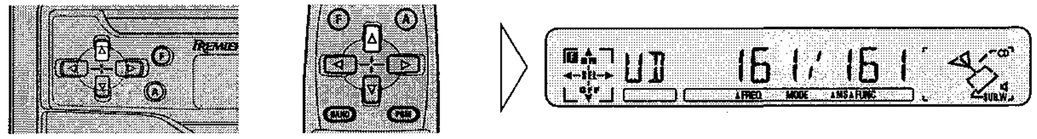
Continued overleaf.

5. Press the ▲ button.



A clear confirmation is displayed.

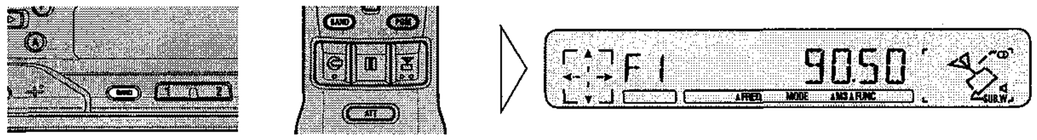
6. Clear data.



The remaining spacce for amendments/deletions (or additions) is displayed for a short while.

Note:
- Press the ▼ button to cancel the CLEAR mode without clearing data.

7. Cancel the update mode.



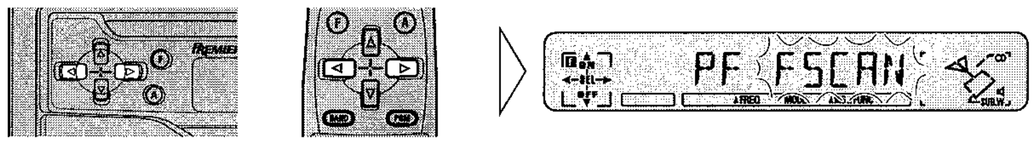
11. Using the PGM (Programmable) Button

You can memorize Function Menu F.BSM (FBSM), F.SCAN (FSCAN), and Multi-Station (M-ST) functions in the Programmable button. Initially, the FBSM function is memorized in the Programmable button.

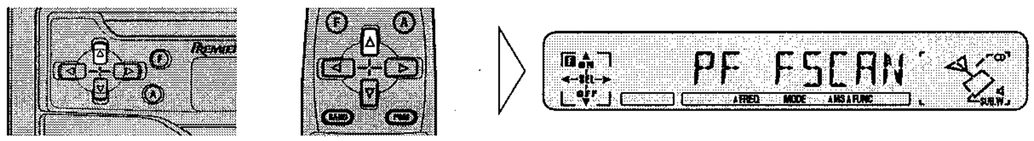
■ Setting the Programmable Button

1. Select the Programmable button setting mode (PGM-FUNC) in the Detailed Setting Menu.

2. Select the function you want to memorize in the Programmable button.



3. Memorize the function in the Programmable button.

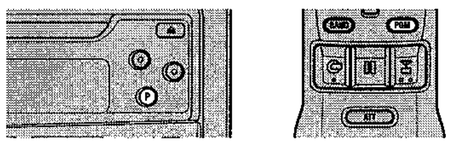


To cancel the Detailed Setting Menu, press the BAND button.

■ Using the Programmable Button

The Programmable button operates in a different way depending on the function programmed (memorized).

- **Use the programmable button.**



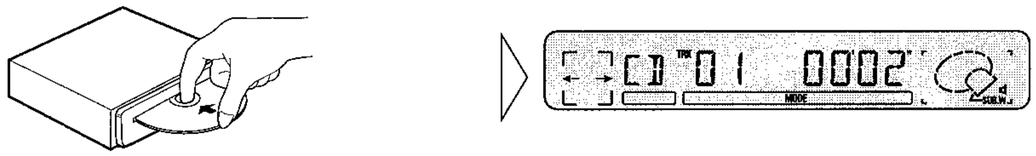
Function	Press	Hold for 2 seconds
FBSM	OFF	ON
FSCAN	ON/OFF	——
M-ST	Select	——

Using the Built-in CD Player

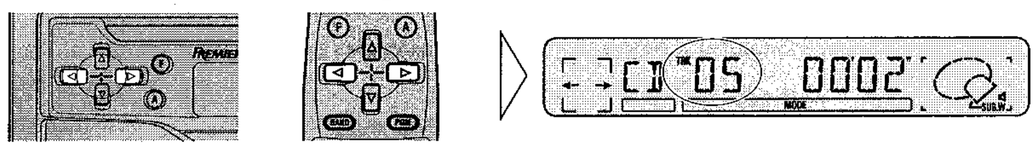
Basic Operation of Built-in CD Player

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

1. Insert the disc with the recorded (iridescent) surface down.



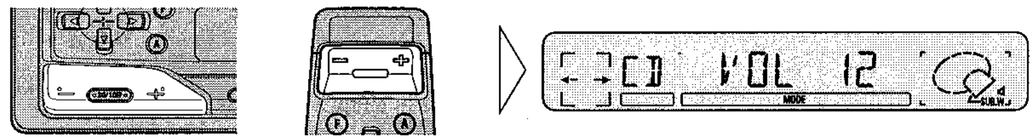
2. Select the desired track (and phrase).



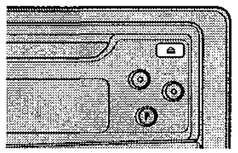
This product's built-in CD player lets you select the Track Search function or Fast-forward/Reverse function by changing the length of the time you press the button.

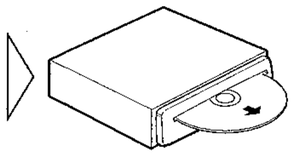
Track Search	0.5 seconds or less
Fast-forward/Reverse	Continue pressing

3. Raise or lower the volume.



4. **Remove the disc.**

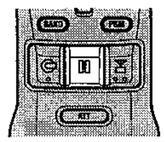


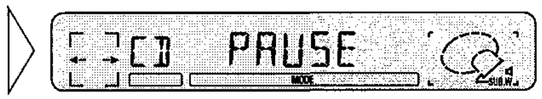


Note:
- The CD function can be turned ON/OFF with the disc remaining in this product. (See page 84.)
- Discs left partially inserted after ejection may incur damage or fall out.
- If a disc cannot be inserted fully or playback fails, make sure the recorded side is down, push the EJECT button and check the disc for damage before reinserting it.
- If a CD is inserted with the recorded side up, it will be ejected automatically after a few moments.
- If the built-in CD player cannot operate properly, an error message (such as "ERROR-14") appears on the display. Refer to "Built-in CD Player Troubleshooting" on page 98.

Pause

- **Stop playback temporarily or restarts the system.**





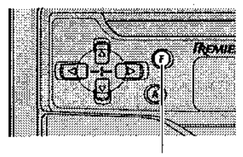
Note:
- You can also switch the Pause function ON/OFF in the Function Menu.

Using the Built-in CD Player

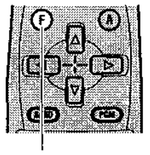
Entering the Function Menu

In this menu you can select built-in CD player functions.

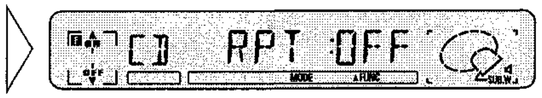
- **Select the desired mode in Function Menu.**



Each press changes the mode ...



Each press changes the mode ...



Each press of the FUNCTION button selects the mode in the following order:
RPT → RDM → SCAN → PAUSE

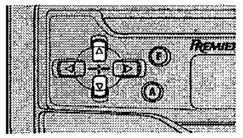
To cancel the Function Menu, press the BAND button.

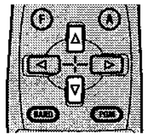
Note:
- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

Repeat Play

Repeat Play plays the same track repeatedly.

1. **Select the Repeat mode (RPT) in the Function Menu.**
2. **Switch the Repeat Play ON or OFF.**





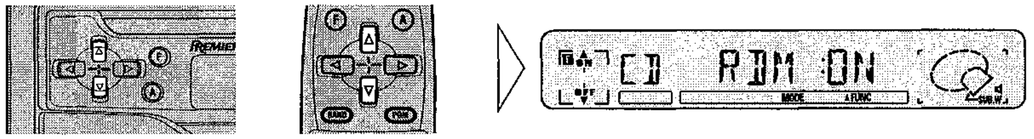
To cancel the Function Menu, press the BAND button.

Note:
- If you perform Track Search or Fast-forward/Reverse, Repeat Play is automatically canceled.

Random Play

Random Play plays the tracks on a CD in random order for variety.

1. **Select the Random mode (RDM) in the Function Menu.**
2. **Switch the Random Play ON or OFF.**



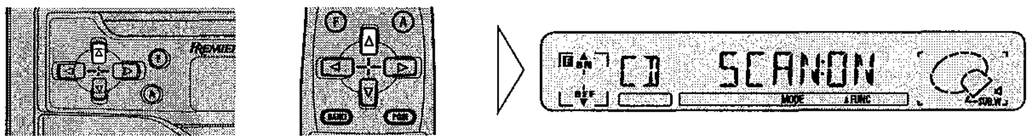
To cancel the Function Menu, press the BAND button.

Note:
- Since playback is random, the same track may be repeated consecutively.

Scan Play

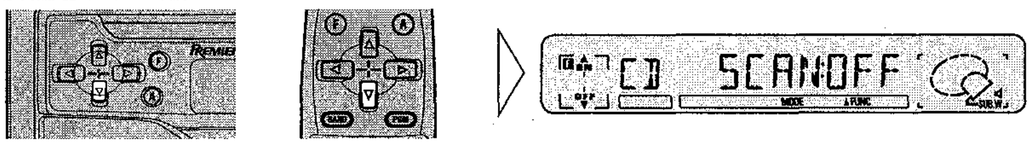
Scan Play plays the first 10 seconds or so of each track on a CD in succession.

1. **Select the Scan mode (SCAN) in the Function Menu.**
2. **Switch the Scan Play ON.**



3. **When you hear the track you are looking for, cancel Scan Play.**

If the Function Menu is automatically canceled at this time, select the Scan mode in the Function Menu once more.



Playback of the current track continues.

To cancel the Function Menu, press the BAND button.

Note:
- Scan Play is canceled automatically after all the tracks on a disc have been scanned.

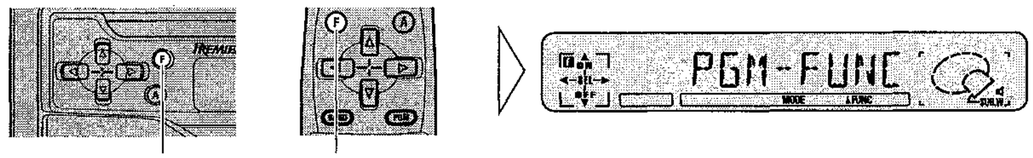
Using the Built-in CD Player

Using the PGM (Programmable) Button

In the Function Menu, you can memorize the Pause (PAUSE), Repeat (RPT), and Random (RDM) functions in the Programmable button. Initially, PAUSE is memorized in the Programmable button.

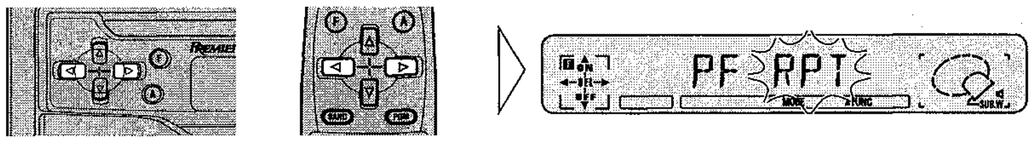
■ Setting the Programmable Button

1. **Select the Programmable button setting mode (PGM-FUNC).**

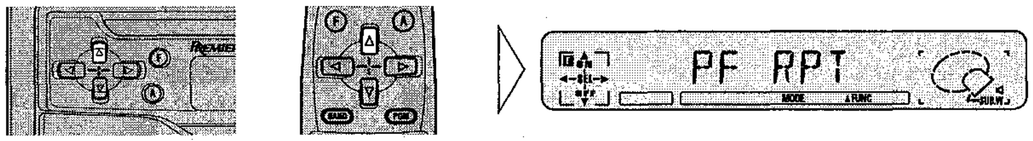


Hold for 2 seconds Hold for 2 seconds

2. **Select the function you want to memorize in the Programmable button.**



3. **Memorize the function in the Programmable button.**

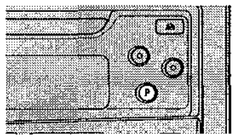


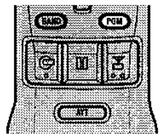
To cancel the Programmable button setting mode, press the BAND button.

■ Using the Programmable Button

The Programmable button operates in a different way depending on the function programmed (memorized).

- **Use the Programmable button.**





Function	Press	Hold for 2 seconds
PAUSE	ON/OFF	——
RPT	ON/OFF	——
RDM	ON/OFF	——

Built-in CD Player Troubleshooting

Error Message

When problems occur with CD playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your dealer or your nearest PIONEER Service Center.

Message	Possible cause	Recommended action
ERROR- 11, 12, 17, 30	Dirty disc.	Clean the disc.
ERROR- 11, 12, 17, 30	Scratched disc.	Replace the disc.
ERROR- 14	Unrecorded CD.	Check the disc.
ERROR- 10, 11,12, 14, 17, 30, A0	Electrical or mechanical problem.	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
HEAT	CD player overheating.	Discontinue play until the machine temperature drops.

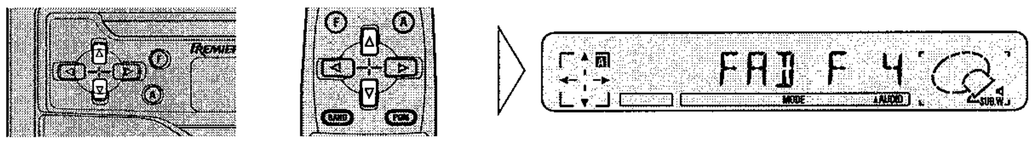
order:

roofer
it is ON.
in 30

Balance Adjustment

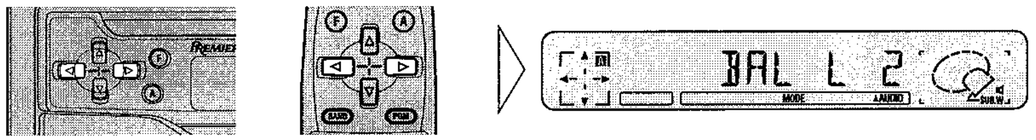
This function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. **Select the Fader/Balance mode (FAD) in the Audio Menu.**
2. **Shift the balance progressively to the front or rear speakers.**



"FAD F15" – "FAD R15" is displayed as it moves from front to rear.

3. **Shift the balance to the left or right speaker, respectively.**



"BAL L 9" – "BAL R 9" is displayed as it moves from left to right.

To cancel the Audio Menu, press the BAND button.

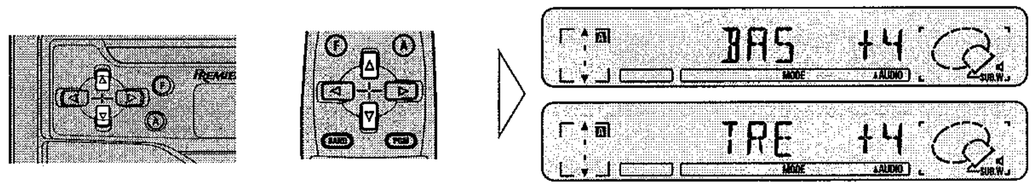
Note:

- "FAD 0" is the proper setting when 2 speakers are in use.

Bass/Treble Adjustment

This product is equipped with two tone adjustment modes, the Bass (BAS) and Treble (TRE) modes.

1. **Select Bass mode (BAS) or Treble mode (TRE) in the Audio Menu.**
2. **Increase or decrease the intensity of the Bass or Treble, whichever is selected.**



The display shows "+6" – "–6".

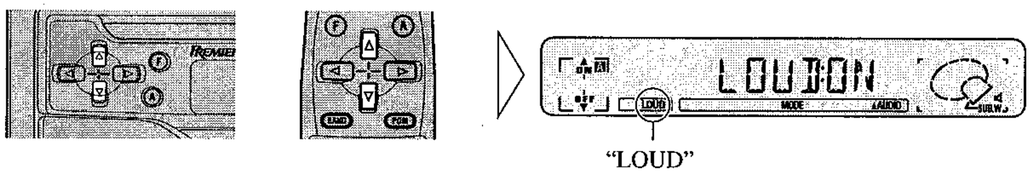
3. **Repeat steps 1 – 2 above for the other Bass or Treble adjustment.**

To cancel the Audio Menu, press the BAND button.

Loudness Adjustment

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume.

1. **Select the Loudness mode (LOUD) in the Audio Menu.**
2. **Switch the Loudness function ON or OFF.**



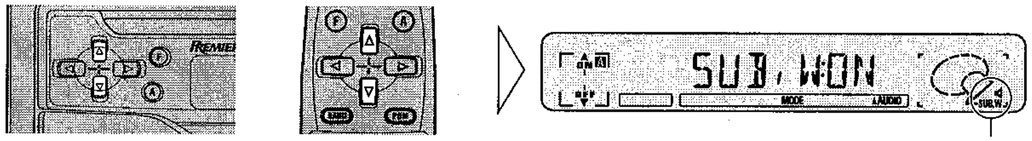
"LOUD"

To cancel the Audio Menu, press the BAND button.

Sub-woofer Output

This product is equipped with a Sub-woofer output which can be switched ON or OFF. Initially, Sub-woofer output is ON.

1. **Select the Sub-woofer ON/OFF mode (SUB.W) in the Audio Menu.**
2. **Switch the Sub-woofer output ON or OFF.**



"SUB.W"

To cancel the Audio Menu, press the BAND button.

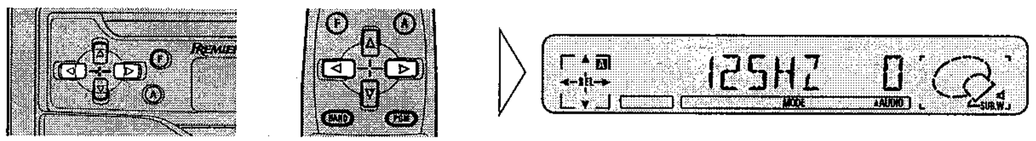
Note:

- Select the OFF setting when you do not want the Sub-woofer to operate.

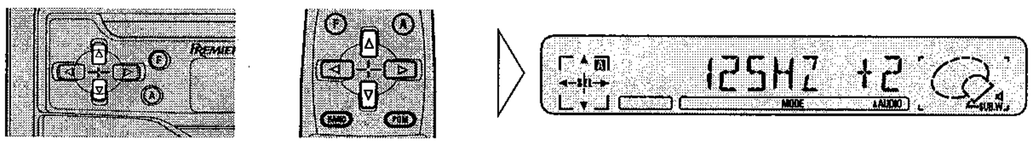
Sub-woofer Setting Adjustment

When the Sub-woofer output is ON, you can adjust the cut-off frequency and the output level of Sub-woofer.

1. **Select the Sub-woofer setting mode (80HZ 0) in the Audio Menu.**
2. **Select the frequency to 50 Hz, 80 Hz or 125 Hz.**



3. **Increase or decrease the output level.**



The display shows "+6" – "–6".

To cancel the Audio Menu, press the BAND button.

Note:

- You cannot select the 80HZ 0 mode (Sub-woofer setting mode) if Sub-woofer output is switched OFF in the SUB.W mode.

Audio Adjustment

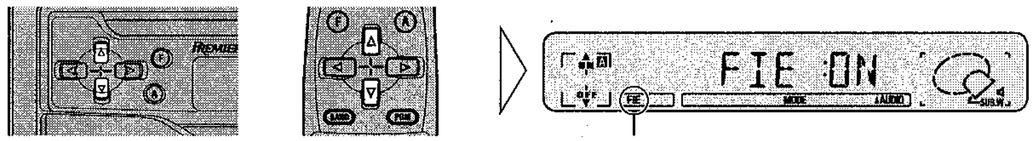
F.I.E. Function

The F.I.E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies.

Precaution:
- When the F.I.E. function is deactivated, the rear speakers output sound in all frequencies, not only bass sounds. Reduce the volume before disengaging F.I.E. to prevent a sudden increase in volume.

1. Select the F.I.E. mode (FIE) in the Audio Menu.

2. Switch the F.I.E. function ON or OFF.



To cancel the Audio Menu, press the BAND button.

Note:
- After switching the F.I.E. function ON, select the FAD mode in the Audio Menu, and adjust front and rear speaker volume levels until they are balanced. (See page 99.)
- Switch the F.I.E. function OFF when using a 2-speaker system.

Volume Attenuator

The Attenuator reduces the volume instantly.

- **Cut the volume by about 90%.**

Repeat the preceding operation to return to previous volume.

Note:
- If the (+) or (–) buttons are used to cancel the Attenuator mode, the sound will resume at a lower volume than before.

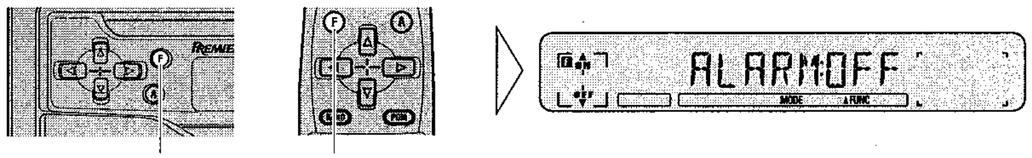
Initial Setting

Entering the Initial Setting Menu

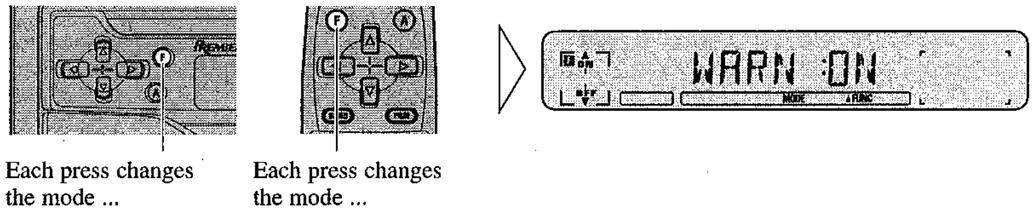
With this menu, you can perform initial settings for the unit.

1. Switch the sources OFF.

2. Enter the Initial Setting Menu with the sources OFF.



3. Select the desired mode.



Each press of the FUNCTION button selects the mode in the following order:
ALARM → WARN → DIM

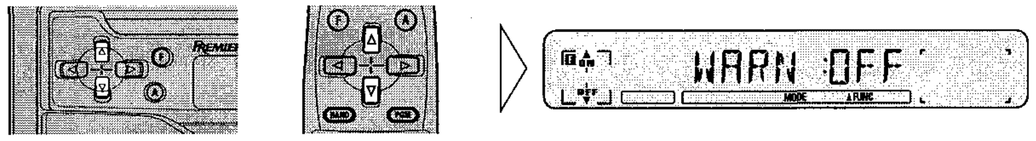
To cancel the Initial Setting Menu, press the BAND button.

Note:
- **ALARM is a new feature "Detachable Face Security Alarm". Refer to "DFS Alarm Function" for details and instructions on how to use this function.**
- Holding down the FUNCTION button for 2 seconds also cancels the Initial Setting Menu.

Setting the Warning Tone

You can switch the Warning Tone function ON/OFF.

1. **Select the Warning Tone mode (WARN) in the Initial Setting Menu.**
2. **Switch the Warning Tone ON or OFF.**

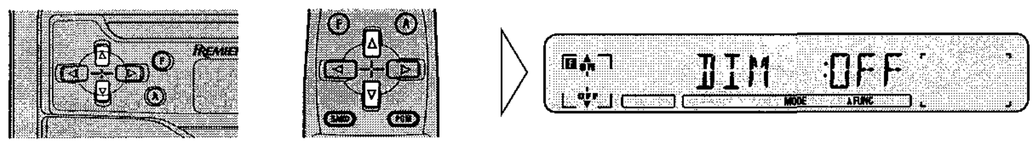


To cancel the Initial Setting Menu, press the BAND button.

Setting the Dimmer

To prevent this display becoming too bright at night, it is automatically dimmed when you switch on your vehicle's headlights. You can switch the dimmer ON/OFF.

1. **Select the Dimmer mode (DIM) in the Initial Setting Menu.**
2. **Switch the Dimmer ON or OFF.**



To cancel the Initial Setting Menu, press the BAND button.

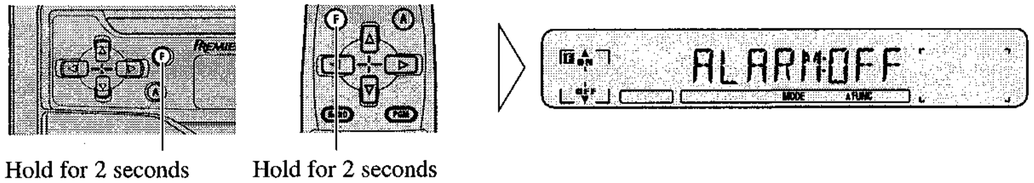
DFS Alarm Function

In addition to the Detachable Face Security, Pioneer has incorporated a new feature **"Detachable Face Security Alarm"**. This feature is designed to protect your new Pioneer car stereo as well as your vehicle contents.

Activating the DFS Alarm Feature

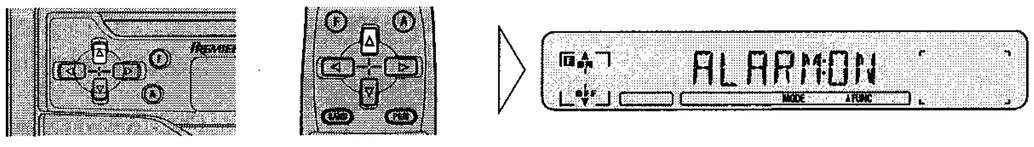
Pioneer has developed a menu display that allows you to set-up your DFS Alarm to meet your personal needs. By scrolling through this menu it is possible to select your own "Entry Delay Time", "Speaker Output Volume", "Selectable Output", "Door System Type", "Starter Disable" and "Remote Disarm".
Initially from the factory the DFS Alarm feature is not activated.

1. **Select the DFS Alarm Feature ON/OFF mode with the sources OFF.**



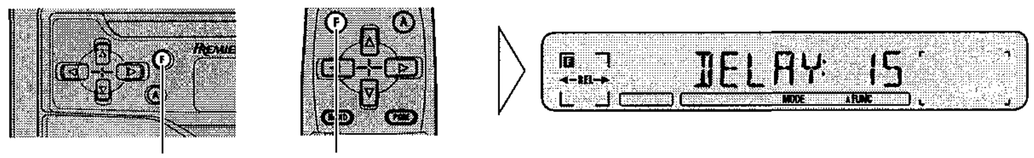
Hold for 2 seconds Hold for 2 seconds

2. **Activate the DFS Alarm Feature.**



Press the ▼ button to deactivate the DFS Alarm Feature.

3. **Enter the DFS Alarm Setting Menu.**

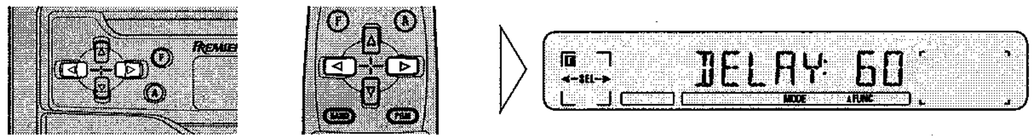


Hold for 2 seconds Hold for 2 seconds

Setting Entry Delay Time

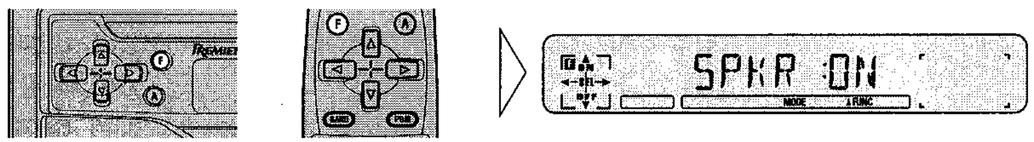
Initially the "Entry Delay Time" is set to 15 seconds. The "Entry Delay Time" can be adjusted to be 0, 5, 15, 30, 45 or 60 seconds.

1. Decrease or increase the "Entry Delay Time".



Display shows 0, 5, 15, 30, 45, or 60.

2. Advance to next selection.



Activating Internal Speaker ON/ OFF

This feature allows you to select whether or not the speaker output is sounded when the "DFS Alarm" is triggered. Initially from the factory the speaker output is activated. Toggling between ▲, ▼ buttons allows you to deactivate or activate the "Internal Speaker". If you switch the speaker output OFF, you can not change the "TEST MODE".

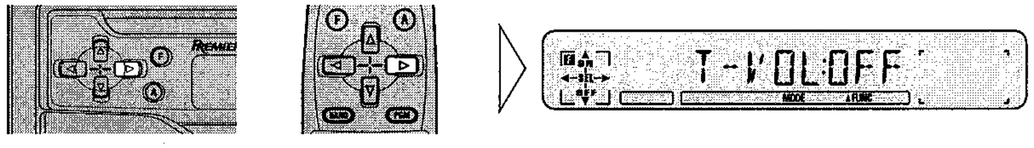
■ Speaker Volume Output Adjustment

If the "Internal Speaker Output" has been selected then it is possible to adjust the volume of the speaker output for when the Alarm is triggered. To adjust the volume you must engage the "TEST MODE".

Note:

- If the "Internal Speaker Output" is turned OFF, then this menu will not appear.

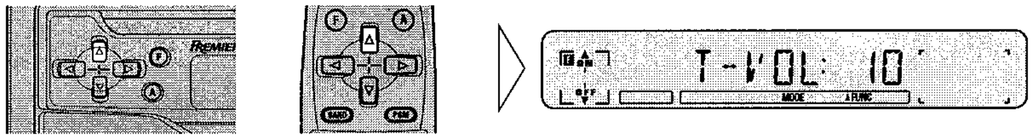
1. Engage the "TEST MODE".



Continued overleaf.

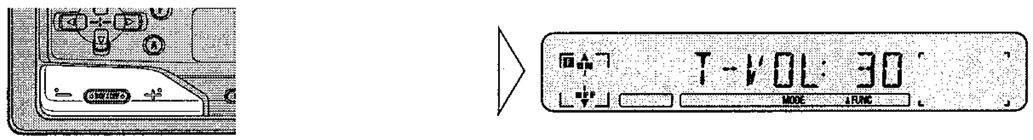
DFS Alarm Function

2. Activate the "TEST MODE".



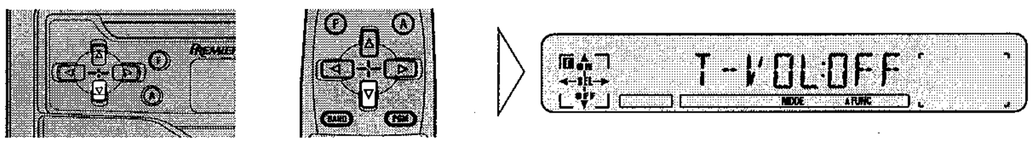
In this mode the speakers will sound.

3. Decrease or increase the volume.

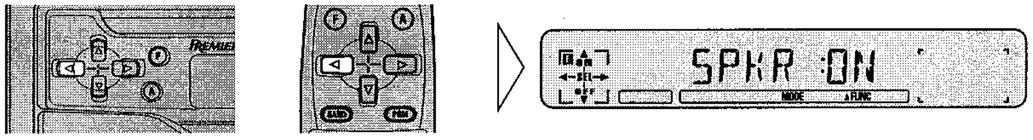


Display shows 10 – 30.

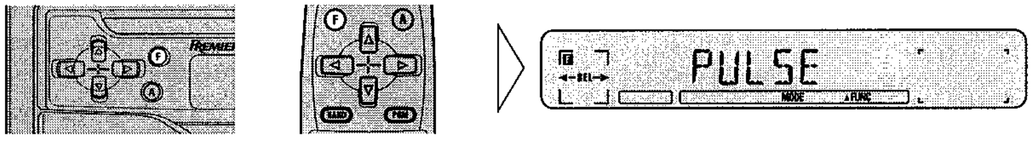
4. After selecting your preferred volume setting, deactivate the "TEST MODE".



5. Cancel the "TEST MODE".



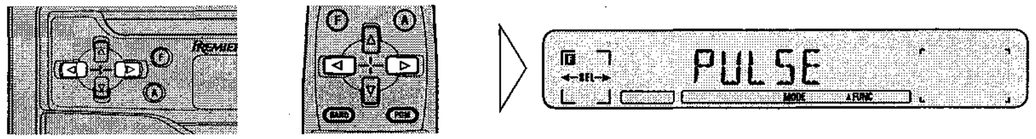
6. Advance to next selection.



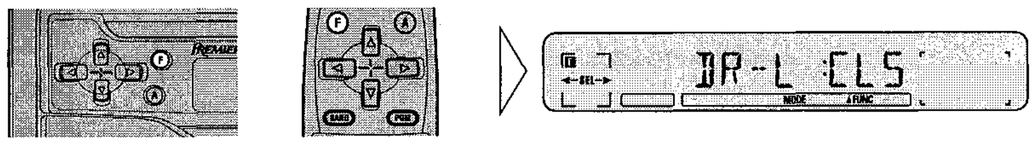
Setting the Selectable Output (Pulse/Constant)

This mode enables you to select a "Constant" output or "Pulsed" output. When connecting a Siren the "Constant" output should be selected. When connecting the horn or lights the "Pulsed" output should be selected.

1. Select your desired output type.



2. Advance to next selection.



Selecting Door Switching Systems

It is necessary to select the correct "Door System Type" (Negative or Positive switching) for that of your vehicle. Initially, the system is set for vehicles with the grounding type (Negative switching).
Select the correct "Door system type" of your vehicle from below.

■ Vehicles to select "DR-L :CLS"

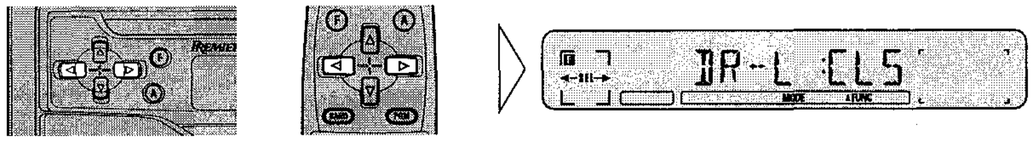
GM, CHRYSLER, EUROPEAN, JAPANESE

■ Vehicles to select "DR-H :CLS"

FORD, JAGUAR, MERCEDES*, etc.

* Some Models Only.

- **Select "DR-L :CLS" or "DR-H :CLS" for the correct door system type.**

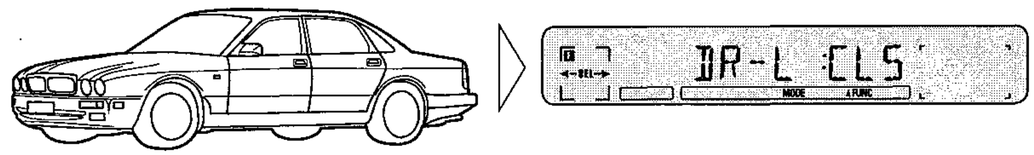


DFS Alarm Function

■ Door System Confirmation

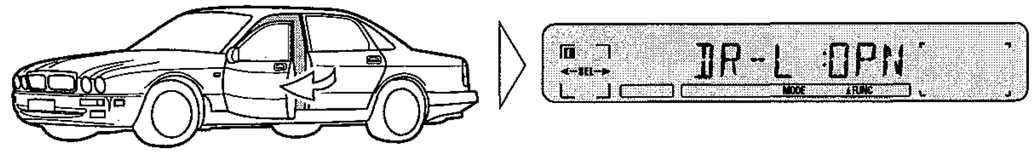
The door system confirmation feature was incorporated to ensure that the correct door system type has been selected. (eg. Set to "DR-L :CLS" for GM vehicles.)

1. First, close all the doors. If the correct door system type has been selected then the Display will show "DR-L :CLS".

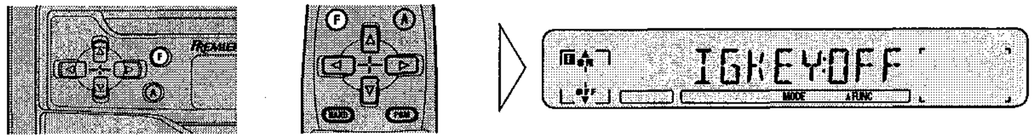


If not, select the alternative door system type by pressing the ◄ or ► button. Lastly, confirm each door triggers the Alarm by opening and closing each door.

2. As the door is opened the display should change accordingly ("DR-L :CLS" – "DR-L :OPN").



3. Advance to next selection.



Starter Disable

This function makes it virtually impossible for a would be thief to start your car when activated. This function is initially set "OFF". If a "SPDT" relay, sold separately, is installed it can be used.
The method for disarming the "DFS Alarm" differs on whether or not this function is "ON" or "OFF".

■ If this function is "ON" or "OFF":

The "DFS Alarm" can be disarmed if the Detach face is reattached within the "Entry Delay Time".

■ If this function is "ON":

The "DFS Alarm" can be disarmed if the ignition key is inserted in the ignition within the "Entry Delay Time", then the key is turned from "OFF" to "ON" 5 times within 1 minute.

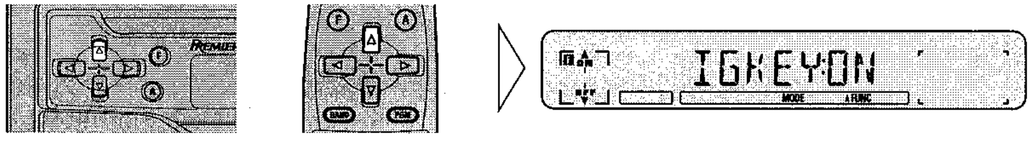
■ If this function is "OFF":

The "DFS Alarm" can be disarmed if the ignition key is inserted in the ignition and turned from "OFF" position to the "ON" within the "Entry Delay Time".

Note:

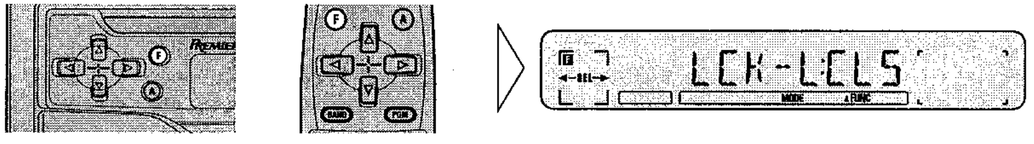
- In order for the "DFS Alarm" to operate when a window is broken, connect this unit's White/Red (ALARM SENSOR) lead to glass sensor securely.
- In order for the "DFS Alarm" to operate when a door is forced open, connect this unit's White (DOOR SWITCH) lead securely.

1. Activate the Starter disable function.



Press the ▼ button to deactivate the Starter disable function.

2. Advance to next selection.



DFS Alarm Function

Central Door Lock Systems

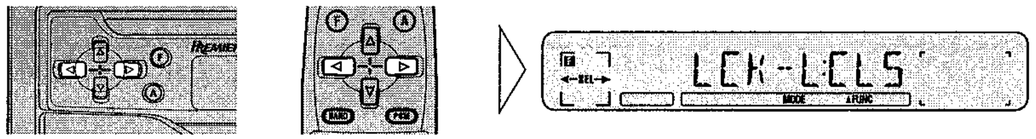
The DFS Alarm can be disarmed by Un-Locking the doors with a remote key-less entry system. If the unit's stand-by state is disarmed, the LED's blinking speed becomes faster. (It can be understood if the "DFS Alarm" has been disarmed by the change in the LED's blinking speed.)

Note:

- If the "DFS Alarm" is disarmed by the key-less entry system, it will remain disarmed. To reset, turn the ignition on after reattaching the face, then turn the ignition to the off position and remove the detachable face.
- If your vehicle is equipped with a central door lock but the glass or shock sensor is not connected, if the window is broken and the central door lock is released, this unit's DFS Alarm will not operate.
- Pioneer recommends that both a shock sensor and glass sensor be installed when you are using the "Remote Disarming" feature.

■ Selecting the Door Lock Type

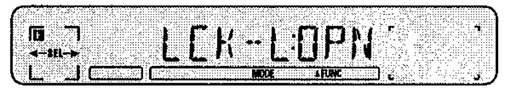
- **Select the "LCK-L:CLS" or "LCK-H:CLS" for the correct door lock type.**



■ Door Lock Confirmation

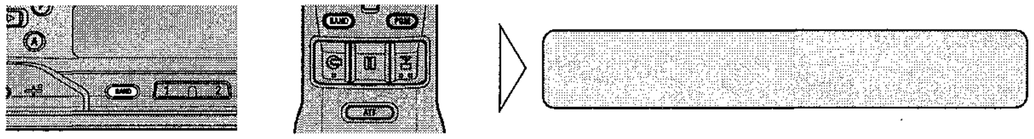
The door lock confirmation feature was incorporated to ensure that the correct door lock type has been selected. (eg. Set to "LCK-L:CLS".)

1. As the doors are unlocked with central door lock system the display should flash "LCK-L:OPN" accordingly.



If not, select the alternative door lock type by pressing the ◄ or ► button.

2. Cancel the DFS Alarm Setting Menu.



Setting of the "DFS Alarm" is now complete.

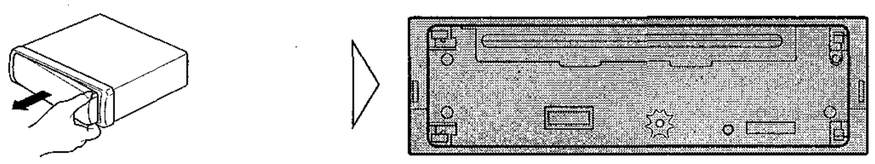
Note:
- In the case that the battery is disconnected or the RESET button is pressed, it may be necessary to re-program the DFS Alarm Menu; otherwise this setting needs to be done only once.
- When the DFS Alarm is armed, you cannot disarm it by pressing the RESET button.

Operation of "DFS Alarm"

Providing the installation and setting of the "DFS Alarm Setting Menu" has been performed correctly, operation of the "DFS Alarm" is very simple.

Arming Alarm

To arm your Alarm simply turn off the ignition and detach the front panel. After detaching the front panel the "DFS Alarm" will automatically arm itself after 30 seconds, providing all of the doors are closed. If after 30 seconds, a door still remains open the DFS Alarm will not arm until the last door has been closed. After closing all of the doors, ensure that they are securely locked. The LED indicator on the head unit will flash as a visual deterrent. Your vehicle is now protected by your "DFS Alarm".



DFS Alarm Function

Disarming Alarm

Upon entering your vehicle, and within the "Entry Delay Time" set within the "DFS Alarm Menu", attach your Pioneer Detachable Face.

■ If you have forgotten the Detachable Face Panel:

If the "Starter Disable" is "ON", insert the ignition key in the ignition within the "Entry Delay Time", then turn the key from "OFF" to "ON" 5 times within 1 minute.
If the "Starter Disable" is "OFF", insert the ignition key in the ignition and turn the key from "OFF" to "ON" within the "Entry Delay Time".

⚠ CAUTION
- If the starter motor will not run, the cause may be the DFS Alarm. To check whether the DFS Alarm is the cause, try switching the position of the switch installed according to the "Avoiding Trouble" section of the installation manual.
- If the DFS Alarm is the cause of the trouble, then the starter motor will run. In this case, confirm DFS Alarm operation in a safe place. If there is no problem, switch the switch back to its original position. If left at the newly switched position, some functions of the DFS Alarm will not operate.
- If the starter motor will not run after switching the switch, something other than the DFS Alarm may be causing the problem. Have the vehicle checked

Entry Detection

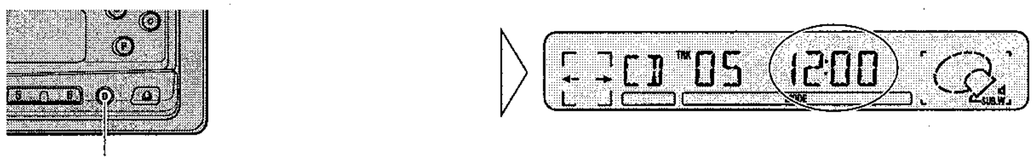
If the "DFS Alarm" was not disarmed in accordance with "Disarming Alarm", the "DFS Alarm" will be triggered. The "DFS Alarm" will sound for 60 seconds and will repeat 5 times if any door is left open or reopened. After the fifth time the "DFS Alarm" will reset to prevent continuous sounding and prevent your battery from discharging.

Precaution:
- Upon returning to your vehicle and before opening any doors, check to see if the LED indicator is still flashing. If the LED is no longer flashing, it indicates that the Alarm as sounded. Disarming, as described above, is still necessary.

Time Display/Setting

■ Displaying the Time

- **To turn the time display ON with the source ON.**

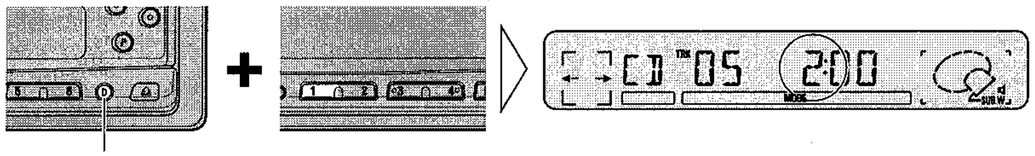


Hold for 2 seconds

The time display disappears temporarily when you perform another operation, but the time indication returns to the display after 25 seconds.

■ Setting the Hours

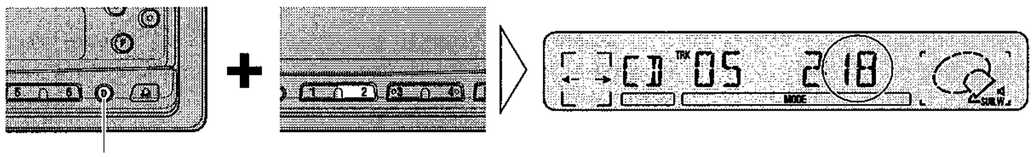
- **While holding down the DISP button for at least 2 seconds, press button 1 to set the hour.**



Hold for 2 seconds

■ Setting the Minutes

- **While holding down the DISP button for at least 2 seconds, press button 2 to set the minute.**



Hold for 2 seconds

When you release the DISP button, the second count begins from 00 seconds.

Note:

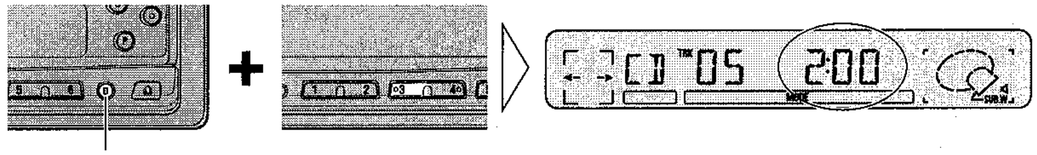
- The hour and minute can be advanced by pressing the respective buttons either consecutively or continuously.

Other Functions

■ Synchronizing with the Time Announcement

- **While holding down the DISP button for at least 2 seconds, press button 3 to reset the minute and second indications to zero.**

Example: When synchronizing between 1:30 and 2:29.



Hold for 2 seconds

Specifications

General

Power source ..... 14.4 V DC (10.8 – 15.1 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 10.0 A
Dimensions
(DIN) (chassis) .... 178 (W) × 50 (H) × 150 (D) mm
[7 (W) × 2 (H) × 5-7/8 (D) in.]
(nose) ..... 188 (W) × 58 (H) × 20 (D) mm
[7-3/8 (W) × 2-1/4 (H) × 3/4 (D) in.]
(D) (chassis) .... 178 (W) × 50 (H) × 155 (D) mm
[7 (W) × 2 (H) × 6-1/8 (D) in.]
(nose) ..... 170 (W) × 48 (H) × 15 (D) mm
[6-3/4 (W) × 1-7/8 (H) × 5/8 (D) in.]
Weight ..... 1.4 kg (3.1 lbs)

Amplifier

Continous power output is 20 W per channel min. into 4 ohms. both channels driven 50 to 15,000 Hz with no more than 5% THD.
Maximum power output ..... 40 W × 4
Load impedance ..... 4 Ω (4 – 8 Ω allowable)
Preout output level/output impedance ..... 500 mV/1 kΩ
Tone controls
(Bass) ..... ±12 dB (100 Hz)
(Treble) ..... ±12 dB (10 kHz)
Loudness contour ..... +10 dB (100 Hz), +7 dB (10 kHz)
(volume: –30 dB)

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal format ..... Sampling frequency: 44.1 kHz
Number of quantization bits: 16; linear
Frequency characteristics ..... 5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio ..... 94 dB (1 kHz) (IHF-A network)
Dynamic range ..... 90 dB (1 kHz)
Number of channels ..... 2 (stereo)

FM tuner

Frequency range ..... 87.9 – 107.9 MHz
Usable sensitivity ..... 11 dBf
(1.0 µV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity .... 16 dBf (1.7 µV/75 Ω, mono)
Signal-to-noise ratio ..... 70 dB (IHF-A network)
Distortion ..... 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response ..... 30 – 15,000 Hz (±3 dB)
Stereo separation ..... 40 dB (at 65 dBf, 1 kHz)
Selectivity ..... 70 dB (2ACA)
Three-signal intermodulation
(desired signal level) ..... 50 dBf
(two undesired signal level: 110 dBf)

AM tuner

Frequency range ..... 530 – 1,710 kHz
Usable sensitivity ..... 18 µV (25 dB) (S/N: 20 dB)
Selectivity ..... 50 dB (±10 kHz)